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ABSTRACT

This study focuses on school characteristics that distinguish between schools that are more effective and less effective in achieving positive results of desegregation. Effectiveness is here defined by measures of student achievement and race relations. The aim was to find school conditions that were susceptible to change and that showed promise as components of a program to improve the progress of integration. Most schools in the study had substantial numbers of both black and white students. In order to provide a range of racial composition, some schools with up to ninety percent of one race were included. The major findings of the study fall into two categories: (1) relationships involving student socioeconomic status, and (2) relationships between school characteristics and student outcomes independent of student background. The findings lend support to the following conclusions: (1) there are school conditions that are systematically related to favorable outcomes of integrated schooling over a wide range of socioeconomic, demographic, and geographic conditions; (2) some of the conditions associated with successful integration are under the control of school personnel; and, (3) while school conditions have varying effects on different student outcomes, the findings are not plaghed by the contraditions and incongruencies said to be often found when many outcomes must be considered simultaneously. (Author/AM)

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FINAL REPORT

CONDITIONS AND PROCESSES OF EFFECTIVE

SCHOOL DESEGREGATION

Garlie A. Forehand Marjorie Ragosta Donald A. Rock

July 1976

The research reported herein was performed pursuant to a contract with the Office of Education, U.S. Department of Health, Education, and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of Education position or policy.

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TABLE OF CONTENTS

		· .		•	•	Page
Acknowledgements		°a				:
Summary of Major Findings	• • • •	• • • • •	• • • •	• • •	•	i
Chapter 1. Introduction	. 5		• • • • •		•	1
Purpose of the Study					•	1
Some Conceptual and Strategic	Issues .	• • • • •	• • • • •		•	. 3
Policy Questions	• • • •					5
Effectiveness of School Cha	ıracteristi	cs			•	6
Effective Conditions and Pr	actices .	• • • • •		• • •	•	6
The Question of Causality					•	- 6
Questions of Implementation	L • • •				•	7.
Congruence among Effects .						7
Procedures					• .	. 8
Data Bases	• • •	• • • • •			•	9
Respondents and Instruments		• • • • •	c • • • • •	• • •	•	17
Chapter 2. Variables and Measure	s	• • • • •		• • •	•	21
Student Outcome Measures	• • • •	• • • • •			•	2 2
Achievement Measures			• • • •		•	22
Race-Relations Measures .	,				•	23
Race-Relations Composites	• • • •	• • • • •	• • • •		•	25
Properties of the Measures .	• • • •	• • • • •			•	31
Means and Standard Deviation	ns				•	32
Relationships between Black	and White	Measures			•,	33
Intercorrelations among Mea	sures	• • • • • •	• • • • •	• • •		38

	Page
Implications	ر نر 39
Measures of School Conditions	41
Teacher Measures	64
Principal Measures	67
Guidance Counselor Measures	68
Background Measures	69
Socioeconomic Status	70
Racial Composition of the School	71
Urbanness of School Districts	.72
Geographical Location	72
Chapter 3. School Conditions and Outcomes in Elementary Schools	73
Student Socioeconomic Status	73
SES and Student Outcomes	74
SES and School Characteristics	74
Implications of SES Results	79
School Characteristics and Student Outcomes	80
Zero-Order Correlations	80
School Effects	88 .
Summary Measures ,	97
Practical Implications	100
Chapter 4. School Conditions and Outcomes in High Schools	105
School Characteristics and Student Outcomes	105
Achievement Scores	106
Race Relations	
Background Measures	113
	122

ζ

. 20	Page
An Analysis of 1975 Data	129
Discussion	137 °
Chapter 5. Causal Analyses of Student Outcomes	141
Methods of Analysis	142
Causal Analyses of Elementary School Data	146
Model I. Effects of SES, Achievement, and Racial Attitudes of Teachers and Principals	146
Model II. Effects of Black-White SES and Achievement Differences, Length-of-Time Integrated, School Climate and Teaching Style	164
Model III. Time Integrated, Teaching Practices, and Racial Contact Practices as Determinants of Racial Attitudes in Elementary Schools	173
Fifth Crade Commence	
Causal Analysis of High School Data	177
	179
Model I. Effects of SES, Achievement, and Racial Attitudes of Teachers and Principals	179
Model II. Effects of School Climate and Teaching Practice	193
Summary	201
Discussion	204
Appendix to Chapter 5	209
Chapter 6. Comparisons of Outcomes Across Years	217
Comparisons of Outcomes in 1972 and 1974	217
Overall Comparisons	218
Stability of School Outcomes	229
School Effects Across Time	234
Comparisons of Outcomes in 1974 and 1975	240
Overall Comparisons	242
1975 Outcomes for Effective and Comparison Schools	242

	Page
Implications of the Cross-Year Comparisons	248
Appendix A. Instruments	
Teacher Questionnaire	A-2
Principal Questionnaire	A-13
Superintendent Interview	A-21
Fifth Grade Questionnaire	A-29
Tenth Grade Questionnaire	A37
Appendix B. Partial Correlations Between School Process Variables and Student Race Relations and Achievement Outcomes	
Fifth Grade	B-2
Tenth Grade • • • • • • • • • • • • • • • • • • •	B-15
Appendix C. Partial Correlations Between Presence or Absence of School Programs as Reported by the Principal or Teachers and Three Student Outcome Measures for Black and White Students	
Fifth Grade	C-2
Tenth Grade • • • • • • • • • • • • • • • • • • •	C-5
Appendix D. 1975 Zero-Order Correlations between Available School Process Variables and Student Outcomes	
Fifth Grade	D-2

G

References

TABLES

<u>Table</u>		Page
1-1	Review of Data Bases	· 10
1-2	Distribution of the 1974 Survey Schools	12
1-3	Distribution of the 1975 Schools	17
1-4	Elementary School Respondents and Sampling Procedures	18
1-5	High School Respondents and Sampling Procedures	19
2-1	Fifth Grade. School Race-Relations Measures	27
2-2	Tenth Grade. School Race-Relations Measures	28
2-3	Fifth Grade. Means and Standard Deviations of 1974 Race Relations and Achievement Outcomes	34
2-4	Tenth Grade. Means and Standard Deviations of 1974 Race Relations and Achievement Outcomes	35
2-5	Fifth Grade. Correlations and Partial Correlations among 1974 Student Outcome Measures	36
2–6	Tenth Grade. Correlations and Partial Correlations among 1974 Student Outcome Measures	37
2-7	Fifth Grade. Composition of Teacher and Principal Process Variables Including Item Descriptions and Loadings of the First Principal Component	- 43
28	Tenth Grade. Composition of Teacher, Principal and Guidance Counselor Process Variables Including Item Descriptions and Loadings of the First Principal Component	52
3–1	Fifth Grade. Composition of the First Principal Component SES Scales for Black and White Students	, 75
3-2	Fifth Grade. Zero-Order Correlations between the First Principal Components of the Student SES Scores and the Student Race-Relations and Achievement Outcomes	75
3-3	Fifth Grade. Zero-Order Correlations between the First Principal Components of the Student SES Scores and the School Process Variables	



<u>Table</u>		Page
3-4	Fifth Grade. Zero-Order Correlations between School Process Variables and Student Race-Relations and Achieve- ment Outcomes	81
3-5	Fifth Grade Composition of the Socioeconomic Status Scales for Black and White Students	. 85
3-6	Fifth Grade. Zero-Order Correlations between Background Variables Used for Partialing and Student Race-Relations and Achievement Outcomes	85
3-7	Fifth Grade. Zero-Order Correlations between Background Variables Used for Partialing and School Process Variables	86
3-8	Fifth Grade. Partial Correlations between School Process Variables and Student Race-Relations and Achievement Outcomes	90
3-9	Fifth Grade. Partial Correlations between School Process Variables and Student Race-Relations and Achievement Outcomes with School SES Removed	98
3-10	Fifth Grade. Partial Correlations between School Process Variables and Summary Measures of Race Relations, Achieve- ment, and Overall Effectiveness	101
4-1	Tenth Grade. Partial Correlations between School Conditions and Student Race-Relations and Achievement Outcomes: 1974 Data	107,
4-2	Tenth Grade. Zero-Order Correlations between School Process Conditions and Student Race-Relations and Achievement Outcomes: 1974 Data	116/
4-3	Tenth Grade. Composition of the Socioeconomic Status . Scales for Black and White Students	124
4-4	Tenth Grade. Zero-Order Correlations between Background Variables and Student Race-Relations and Achievement Out- comes	125
4-5	Tenth Grade. Zero-Order Correlations between Background Variables and School Conditions: 1974 Data	125
4-6	Tenth Grade. Partial Correlations between School Conditions and Student Race-Relations and Achievement Out-comes: 1975 Data	130
4-7	Tenth Grade. Zero-Order Correlations between School Conditions and Student Race-Relations and Achievement Outcomes: 1975 Data	133

•

	ę, .		
	Table		Page
	5-2a	Direct and Indirect Effects on Dependent Variables by Rypothesized Causes (Black - 5th Grade)	15,3
	5-2b	Direct and Indirect Effects on Dependent Variables by Hypothesized Causes (White - 5th Grade)	156
	5-3a	Direct and Indirect Effect for "Would You Like More Friends of a Different Race?" White Fifth Graders	167
	5-3b	Direct and Indirect Effect for "Would You Like More Friends of Different Race?" Black Fifth Graders	172
ı	5-3c	Direct and Indirect Determinants of Fifth Grade Racial Attitudes, Holding Constant SES, % Black, and North-South Geographical Location	176
	5-4a	Direct and Indirect Effects on Dependent Variables by Hypothesized Causes (Black - 10th Grade)	. 182
	5-4b	Direct and Indirect Effects on Dependent Variables by Hypothesized Causes (White - 10th Grade)	185
	5-5a°,	Direct and Indirect Effects for Racial Attitude. White Tenth Graders	195
۰,	5 - 5b	Direct and Indirect Effects of Racial Attitude. Black Tenth Graders	199
.	6-1	Comparison of Race-Relations and Achievement Outcomes in 1972 and 1974 in 48 Southern Schools	219
	6-2	Tenth Grade. Comparison of Race-Relations and Achievement Outcomes in 1972 and 1974 in 48 Southern Schools	220
•	§−3	Fifth Grade. Internal Consistency and Stability Coefficients	231
	6-4	Tenth Grade. Internal Consistency and Stability Coefficients	232
	6-5	Fifth Grade. Partial Correlation Coefficients of Black Student Outcome Measures with Teacher and Principal Vari- ables Measured in 1972	236
	6-6	Fifth Grade. Partial Correlation Coefficients of White Student Outcome Measures with Teacher and Principal Variables Measured in 1972	237
,	.6-7	Tenth Grade. Partial Correlation Coefficients of Black Student Outcome Measures with Teacher and Principal Variables Measured in 1972	238

Table		Page
6-8	Tenth Grade. Partial Correlation Coefficients of White Student Outcome Measures with Teacher and Principal Variables Measured in 1972	239
6-9	Fifth Grade. Comparison of Race-Relations and Achieve- ment Outcomes in 1974 and 1975	243
6-10	Tenth Grade. Comparison of Race-Relations and Achieve- ment Outcomes in 1974 and 1975	244
6-11	Fifth Grade. Analysis or Covariance of 1975 Race-Rela- tions Outcomes	245
6-12	Tenth Grade. Analysis of Covariance of 1975 Race-Relations Outcomes	247
	Appendix	. •
B-1	Fifth Grade. Partial Correlations between School Process Variables and Student Race-Relations and Achievement. Outcomes	B-2
É~2	Tenth Grade. Partial Correlations between School Process. Variables and Student Race-Relations and Achievement Outcomes	B-15
C-1	Fifth Grade. Partial Correlations Between Presence or Absence of School Programs as Reported by the Principal or Teachers and Three Student Outcome Measures for Black and White Students	C-2
C-2	Tenth Grade. Partial Correlations Between Presence or Absence of School Programs as Reported by the Principal, Teachers, or Guidance Counselors and Five Student Outcome Measures for Black and White Students	C~5
D-1	Fifth Grade. 1975 Zero-Order Correlations between Available School Process Variables and Student Outcomes	D- 2

FIGURES

Figure	`.		
			Page
,5−1a	•	General form of causal models presented in this report	143
5-1ь		A more specific causal model	144
5-2a		Black 5th grade structural model of racial attitudes	. 148
5-2b	•	White 5th grade structural models of racial attitudes	149
5-3a	•	Explanatory model for "Would you like more friends of different race?" White fifth graders	د. 166
5 − 3b	,	Explanatory model for "Would you like more friends of different race?" Black fifth graders	171
5-3c .	i de la companya de l	A model of effects of teaching practice on students' racial attitudes. Black and white fifth graders combined	175
5-4a	• ,	Black tenth grade structural model of racial attitudes	180
5-4b		White tenth grade structural model of racial attitudes	181
5~5a		Explanatory model for racial attitude. White tenth graders	194
5∸5b³	.	Explanatory model for racial attitude. Black tenth graders.	198
6-1	•	Plot of the 1972-by-1974 school scores for fifth grade white students personal racial attitudes.	. 223·
6-2		The plot of 1972 school scores by 1974 gain for fifth grade white students personal racial attitudes	224
6~3		Fifth grade. Plots of 1972 to 1974 changes in black and white students' personal and perceived school racial attitudes by four categories of schools: effective and comparison race relations (ERR & CRR) and effective and comparison achievement (EA & CA)	, 226
6-4	••	Tenth grade. Plots of 1972 to 1974 changes in black and white students' perceived and personal racial attitudes; racial contact, and school fairness by four categories of schools: effective and comparison race relations (ERR & CPR) and offective and comparison race relations	007
	1	CRR) and effective and comparison achievement (EA & CA)	227

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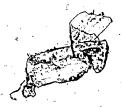
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Garlie A. Forehand
Marjorie Ragosta
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Summary of Major Findings

This study of conditions and practices of effective school desegregation focused on school characteristics that distinguish between schools that are more effective and less effective in achieving positive results of desegregation. Effectiveness is defined by measures of student achievement and of race relations. The attempt was to find school conditions that are susceptible to change and that show promise as components of a program to improve the progress of integration. The focus of the study was on black and white student desegregation. Most schools in the study had substantial numbers of both black and white students. In order to provide a range of racial composition, some schools with up to 90 percent of one race were included.

Methods

The data for this study were from a survey of 96 elementary schools and 72 high schools conducted in the spring of 1974, and a follow-up survey of 22 elementary schools and 21 high schools in 1975. Site visits and interviews were conducted in 24 elementary schools and 24 high schools in 1974 and in all 43 schools in 1975. The purpose of the site visits was to obtain examples of school practices and problem solving. The interview material was used to develop specific suggestions for action by school personnel. These suggestions are presented in a handbook which is a separate report of this project.

Fifth grade students in elementary schools and tenth grade students in high schools took a 50-minute achievement test and completed a questionnaire. The questionnaire contained questions regarding personal attitudes, background, and descriptions of the school. The outcome measures of the study were based on the student data. At the elementary school level, two measures of race relations were used. The first, labeled student racial attitudes, included



statements of personal attitude, such as desire for friends of a different race and liking for integrated schooling. The second, labeled perceived school racial attitude, included statements about how students thought teachers and principals liked integration. At the high school level, two additional measures of race relations were used. A measure of racial contact was based on students' descriptions of their voluntary associations with students of a diff race. A measure labeled school fairness included statements about to which the students felt that school personnel and practices were fair to them. Outcome measures were analyzed separately for black and white students.

Principals, teachers, and, in high schools, guidance counselors also completed questionnaires. Items from the questionnaires of staff members were grouped to form composite measures descriptive of school characteristics.

Among the measures of school characteristics were teachers' racial attitudes, principals' racial attitude, support for integration, teaching style, and multiracial teaching practices.

In attempting to explain variations in outcomes, emphasis was placed on school characteristics rather than on broader community conditions. This emphasis focuses attention on actions schools can take to improve integration. In statistical analyses, background variables that might be expected to influence outcomes were taken into account. The background measures were the socioeconomic status (SES) of black students, the SES of white students, the racial composition of the school, the degree of urbanness of the area in which the schools were located, and the location of the school in Southern or non-Southern states. In analyses of the relationship between school characteristics and outcomes, a regression estimate of outcome as a function of background was



computed. School characteristics were associated with residuals from these regression estimates. The unit of analysis was the school.

Major Findings

The major findings of the study fall into two categories: relationships involving student socioeconomic status and relationships between school characteristics and student outcomes independent of background.

Sucroeconomic Status and School Integration

The role of student background in determining educational outcome is often cited. In this study as in many others, socioeconomic background of students in a school is related to achievement and attitudinal outcomes. The results of this study also suggest emphasis on the other side of the coin. Background measures are also related in systematic ways to school conditions and practices. At both the elementary and high school 1.00 lb, schools whose black students have low mean SES scores tend to have the llowing characteristics: negative teacher racial attitudes; absence of tear and practices related to race relateacher racial attitudes; absence of tear and practices related to race relatements; perception by teachers of difference between black and white students; and lack of support for integration. Elementary schools whose black students have low mean SES scores also are characterized by a teaching style that emphasizes warning and scolding. High school principals are less likely to evaluate race-relations programs, instructional programs, and human relations programs as adequate when black student SES is low.

These results indicate that students who are both poor and black are in demple jeopardy. Not only are racial attitudes poorer in schools with low SES in ack students, but the practices which might help to change those attitudes exist to a lesser degree.



These results—and those pertaining to other background variables—suggest caution in attributing poor educational outcomes to "student background." When student background affects both the student's own attitudes and achievement and also the nature and quality of the education that the student receives, the school must share responsibility for poor outcomes.

School Conditions and Integration

In both elementary schools and high schools school conditions bear a closer relationship to od race relations than to achievement test scores. In high schools there are no school conditions that account for achievement scores when background conditions are statistically controlled. There are school conditions that predict how positive race relations will be, independently of the backgrounds of the students. This section summarizes conclusions about major school increase in effective race relations. The school variables that are most consistently related to student outcomes can be grouped into five categories:

- (a Reaching and school activities designed to promote biracial association and support.
 - (b) A positive evaluation by teachers of high school principals.
- (c Positive racial attitudes of teachers, which are reported by teachers themselves and perceived by students.
- (d) Support for integration which is shared and perceived by teachers, administrators, and students.
- (e) Absence of conflict and tension regarding racial issues and other social and amucational concerns.

In addition there are variables that have important relationships to specific components of race relations. They include the friendliness of interpersonal relations in the school, the teachers' evaluation of student

achievement, and programs of human relations and race relations that are evaluated as helpful for race relations.

Teaching for good race relations. Schools that teach for effective race relations have good race relations. This is perhaps the most consistently found relationship. It is found in both elementary and high schools and in relation to the attitudes of both black and white students. In elementary schools, teaching methods oriented toward good race relations are associated with improved achievement as well. There are several indicators of "teaching for effective race relations." They include the use of multiracial curriculum material; the teaching of minority-group history and culture; systematic use of projects on social and attitudinal issues related to race; assignment of black and white students to play together in organized activities.

Evaluation of the principal. High schools that have good race relations tend to have principals that are evaluated highly by teachers. These principals are described as supportive of both black and white teachers and as persons of major influence in the school and district. They also receive high overall ratings from the teachers.

Teachers' racial attitudes. In high schools, the racial attitudes of teachers and principals have a strong relationship with the racial attitudes of white students. The racial attitudes of teachers also predict the interracial contact of white students. In elementary schools, black students perceive racial attitudes in the school to be positive when teachers' racial attitudes are positive.

In both high schools and elementary schools, favorable racial attitudes of the teachers and principals are associated with favorable student race



relations. This suggests that the model of race relations set by adults in the school influences the nature of student race relations in the school.

(These associations are reduced when adjustments are made for student background. This fact does not invalidate the findings, because of the substantial correlations between black student SES and the attitudes of teachers and principals.)

The racial attitudes of principals have complicated relationships with educational outcomes. The relationships vary in size and on what outcome measure is used, which race of students is studied, what background variables are controlled, and whether measures are taken at the elementary or high school level. The results pertaining to teachers' evaluation of principals suggest that principals play an influential role in the success of integration. That conclusion is strongly supported by the impressions of interviewers who visited schools. But the influence cannot be easily summarized in a pattern of correlational results. Several analyses were performed to examine the role of principals' racial attitudes along with other variables. These analyses suggest that principals' racial attitudes have an indirect effect on the racial attitudes of white students. Principals' racial attitudes seem to have direct influence on the attitudes of teachers in elementary schools and on teaching practices in high schools. These variables in turn have a direct effect on the racial attitudes of white students.

Support for integration. Schools vary in the degree to which teachers, administrators, school officials, and students communicate support for integration. Support for integration is related to more favorable race relations, escapilly at the high school level.

Reduction of conflict and tension. Low conflict and tension is consistently associated with good race relations, whether the conflict is reported by teachers or principals, whether the effect is on black or white students, and whatever the source of the conflict. At the high school level, all student-measured indicators of race relations are more favorable when to sion an conflict are lower. At the elementary chool level, lower amounts of tension and conflict are associated with students' perceptions of better racial attitudes in the school. This is probably a situation where cause and effect is inextricably intertwined. Low conflict and tension is probably both a cause and an effect of good racial attitudes. Reduction of conflict and tension is an approachable intermediate goal of a program to improve integrated education.

Conclusions

This study set out to determine whether school conditions have a bearing on the effectiveness of racial integration, apart from the effects of students' personal backgrounds and of community characteristics. To focus on school conditions as determinants of student attitudes and achievement is to accept a limitation on the amount of variation in student outcomes that the study can explain. Social conditions in the community and family backgrounds of students undoubtedly have a strong effect on the success of integration in a particular school, whatever the conditions and practices are in the school itself. On the other hand, the emphasis on school conditions focuses attention on actions that school personnel can take to improve integrated education.

The findings lend support to the following conclusions. First, there are school conditions that are systematically related to favorable outcomes



of integrated schooling, particularly to good race relations, over a wide range of socioeconomic, demographic, and geographic conditions. Second, some of the conditions associated with successful integration are under the control of school personnel. It is feasible for to ave prograte improve teaching practices, racial attitudes of adults, support for integration, and interpersonal relations. Third, while school conditions have varying effects on different student outcomes, the findings are not plagued by the contradictions and ancongruencies after found when many outcomes must be considered simultaneously. In general, actions that might be taken to improve race relations are compatible with actions to improve achievement. Conditions conducive to favorable attitudes of white students are consistent with those conducive to favorable attitudes of black students. It is possible to build a program of simultaneous activities to improve a wide range of components of effective integration, with reasonable hope of success.

Introduction

After summarizing 120 studies of school desegregation, Nancy St. John (1975) concluded:

At this juncture, further investigation of the broad question — Does desegregation benefit children? — would seem a poor use of national resources. The pressing need now is to discover the school conditions under which the benefits of mixed schooling are maximized and its hardships minimized. (Underscore added.)

The goal of the study presented in this report was to discover such conditions. The guiding question was: What school conditions distinguish between schools that have achieved "successful" integration and those that have not?

Therefore, unlike many studies of integration, this is a study of integrated schools. The question is not whether integration has effects different from those of segregation, but rather whether there are school conditions that foster effective integration.

All of the schools in this study had both black and white students. A few schools had substantial representations of other minority groups. The focus of the analysis is on the achievement and attitudes of black and white students. This emphasis does not imply lack of interest in other minority groups or an assumption that results regarding integration of black and white students can be generalized easily to integration that involves other racial and ethnic groups. It was, rather, a strategic decision necessitated by economic and practical limitations in the conduct of the research.

Purpose of the Study

This study began in May, 1973. It was intended to extend the work of the ESAP-II evaluation conducted by the National Opinion Research Center and detailed in its report Southern Schools (National Opinion Research Center, 1973). The Southern Schools study evaluated programs supported by the Emergency School Assistance Program during the 1971-72 school year. It found that the achievement of black male high school students was higher in schools which had ESAP funding than in randomly assigned comparison schools without such funding. There were no significant differences for female high school students or for elementary schools. The authors also examined how the funds were spent by the schools. High schools, more often than elementary schools, spent special funds on activities to improve race relations, such as extracurricular activities and race-relations training for teachers.

The <u>Southern Schools</u> study also found that students' attitudes toward integration were more likely to be positive in schools that emphasized human relations and innovative programs in curriculum organization than in schools that emphasized guidance, counseling, or basic services. Moreover, schools whose principals and teachers took positions supportive of integration had students who were more favorable to integration. These results lent encouragement to the hypothesis that school actions and programs have an effect on the success of integration. The present project is an additional effort to identify school conditions and practices that characterize effective racial integration.

Some Conceptual and Strategic Issues

There are questions of conceptualization and strategy that must be faced at the outset of a study of a subject as complicated as racial integration. Three of these questions, and the decisions made in the conduct of this study, deserve mention at the outset of this report, because they affect the interpretations made throughout the report. The issues have to do with (a) how to define "effective integration" for purposes of analysis, (b) how to select and define the conditions to be examined in relation to criteria of effective integration, and (c) what unit of analysis should be used in examining variance.

There are many perspectives for defining effective desegregation.

Effectiveness might be measured as the absence of overt confrontation. It might be defined in terms of teachers' and principals' satisfaction with the way students behave, or by their judgments about how well students are learning. It might be defined as acceptance of integrated schools by the community. In this study, criteria of effectiveness are based on students' responses to achievement tests and attitude questionnaires. Although basing measures of effectiveness on student measures is necessarily an erbitrary choice to some degree, most participants would agree that the final test of the effectiveness of integration depends on its impact on students. The information given by teachers and principals about themselves and about their schools is used to measure variables which are interpreted as school characteristics. On the other hand, this study treated certain aspects of students' perception of the school environment as dimensions of effectiveness of integration, as described later in this chapter. Again the decision

whether to treat such student variables as criteria of effectiveness or as school conditions that influence effectiveness is an unavoidably arbitrary one. The approach taken here reflects the judgment that students perceptions of schools as supportive of integration and as fair to students are indicators of effective integration, and therefore are properly treated as educational objectives. A further description of the variables used as criterion measures its given in Chapter 2.

A second strategy decision was to focus on school conditions as potential decerminants of variations in effectiveness of integration: Obviously, school conditions are but a subset of environmental conditions that affect the achievement and attitudes of students. For example, it is probable that a student's facial attitude is influenced by the attitudes of parents; by predominant attitudes in the community; by the degree to which local officials support integration; by the student's own history of multiracial schooling; by the relative peacefulness of the integration process in the community; and by many other variables. To select a small subset of potential influence is to accept limitations on the degree to which variance in student measures can be accounted for. On the other hand, school conditions constitute a subset of variables with particularly important policy implications. If it can be established that, whatever the impact of extra-school factors, there are school conditions that have measurable effects, these effects will have an important bearing on the design of educational programs and the conduct of school activities. It is the responsibility of school personnel to arrange school conditions for maximum educational benefit, whatever the conditions

5

in the homes and communities of the students. The emphasis in this study was on practical approaches to educational policy as planned and implemented by schools, school districts, and funding agencies.

A third strategy decision stemmed from the emphasis on school conditions. The school was the unit of analysis. In the analysis reported in this report, student and teacher responses were aggregated to the school level. Therefore, descriptions of statistical relationships refer to school means of student and teacher variables, rather than to the responses of individuals. The variance examined is variance among schools.

Policy Questions

This study is intended to provide information useful in formulating and implementing educational policy. A dictionary definition of policy is "A definite course or method of action, selected among alternatives in the light of given conditions, to guide and determine present and future decisions."

The present and future decisions must be made at many different levels: by the teacher in the classroom, the principal and curriculum committee in the school building, the superintendent and school board in the community. State and federal agencies require policy to guide decisions regarding the coordination, funding, support, and evaluation of activities that take place at other levels. Results and conclusions may be relevant to present and future decisions at more than one level. At the school and classroom level the results should inform decisions about educational practice, from day to day and from school year to school year. At levels more removed from students, the results should have relevance to the development of coordinated programs of

support, initiation, evaluation, and dissemination of educational practices.

The study was designed and conducted to provide information relevant to the following policy questions.

Effectiveness of School Characteristics

Are there observable characteristics of schools that are reliably associated with desirable educational outcomes? There is a wide range of kinds of school characteristics that might have positive or negative effects, including the attitudes of staff members, the curriculums, policies regarding extracurricular activities, discipline, formal and informal organizational procedures, and the social climate of the school. The research aim was to explore school variables that are predictive of effective racial integration.

Effective Conditions and Practices

If there are school characteristics associated with effective integration, what are their action components? The emphasis in research dealing with ways to improve school practices must be on variables that are at least potentially modifiable. There is need for effort to identify dimensions of school effectiveness that can be translated and replicated by other schools. Thus special emphasis is placed on problems and practices that can be changed and controlled.

The Question of Causality

A question that must be faced in any research based on observational data is this: to what degree do the associations observed imply causal relationships?

If there are human-relations programs in schools with good race relations, does

that mean that human-relations programs produced the desirable result? The other alternatives — that good race relations cause schools to implement human-relations programs, for example, or that particular social settings are likely to produce both good race-relations and human-relations programs — must be evaluated carefully as explanations. Policy makers need to know the direction of causality — or at least to know enough of the evidence for or against a particular causal direction to protect themselves from false assumptions. In the study of school effectiveness (whatever the dimensions of effectiveness at issue) the critical problem of sorting out effects of schools from the effects of the students home and community backgrounds must always be confronted.

Questions of Implementation

Survey data can point to the existence of conditions associated with positive outcomes. Equally important is the question of how those conditions can be achieved. At the school level, the question of what principals and faculty can do must be a constant guide to interpretation. At levels above the school itself, key policy questions include how the development and implementation of programs to achieve effective integration can be encouraged and supported.

Congruence among Effects

Effectiveness of school integration is a multivariate domain. In such situations, policy makers and policy researchers are plagued by the ubiquity of interactions. Can one be sure that what is good race relations for white students is also good race relations for black students? Is manifestation

28.

of one desirable feature of race relations — e.g., absence of overt conflict
— actually congruent with other desirable features — e.g., diminution of
prejudice and equality of opportunity? One can postulate conditions under
which such outcomes might occur together, others in which they might be
independent, and still others in which they might conflict. Another interactive
question is how school conditions interact in their effects. Are there
conditions that produce desirable effects for one race and undesirable ones
for another? Do conditions that foster good race relations help or hamper
academic achievement? Events within schools interact with the larger social
system and chronology. Will a proposition that is supportable in one school
at one time be equally valid in other places and other years, when a wide
range of differences in the environment exists? Other things are rarely equal
in the world of education. It is the responsibility of researchers to
illuminate the potential effects of interactions, and of policy makers to
take them into account with intelligence and without paralysis.

Procedures

The basic data for this study are from a survey of schools conducted in 1974, and a follow up of a subset of these schools in 1975. In addition, the 1972 Southern Schools data base, collected by NORC, was made available. In addition to the survey, a series of site-visit interviews was conducted on a subsample of schools in the 1974 sample and all the schools in the 1975 sample. The analyses presented in this Technical Report are of the survey data. The interview data were collected in an effort to obtain more specific examples of effective and ineffective school practices. Those results are the basis for a separate report, a Handbook for Integrated Schooling, which presents suggestions for improving a school's program of integration.



Dama Bases

Several data bases were used for the analyses in this report. Their characteristics are materized in Table 1-1. Their origin is described britisly! this section.

The Southern Schools data base. This set f data was collected by NOES in 372. The schools were all in Southern still. Seventy-eight high schools and 135 elementary schools were used in an experimental study of the impact of funding through the Emergency School Assistant frogram. Half of those schools were randomly assigned to the experimental program and the other half to a control group. An additional 341 schools were added for cross-sectional analyses. The Southern schools for the present study were selected from the Southern Schools data base.

The 1972-1974 subsample. Forty-eight elementary schools and 48 high schools were selected from the Southern Schools data base to form the Southern portion of the sample survey in 1974. These schools were selected to represent four categories. Two categories were based on achievement results in 1972. One set of schools was selected as showing evidence of effective achievement in 1972. A comparison group had less effective results on achievement scores. A similar selection was made on the basis of race-relations data from the 1972 survey. Schools with effective race relations and comparison schools less effective in race relations were identified. Table 1-2 shows the distribution of these schools by categories. The method of selection is described briefly in this section. The schools selected by these methods constitute the data bases labeled 2 and 4 in Table 1-1. Data base 2 contains 1972 data from the NORC survey. Data base 4 contains 1974 data collected for this study.

Table 1-1

Review of Data Bases

		E1 emer	Elementary Schools	[s	H1gh	High Schools	
			Silivey			Xa	
	Dafil Bases		Southern	Pertoal	New hore	Merch Merch	Total
•	1. (NORC) Southern Schools Sample	!	228	228		161	161.
•	2. 72/74 Subsample	}	87	87	1	48	87
	1974						
	3. Total Sample	94	48	* 76	24	87	72**
	4. 72/74 Subsample	ļ	87	87	1	87	48
	5. 74/75 Subsample ^B	. 11	11	22	10	11	
	<u>1975</u> 6. Total Sample ^B	. 11	11	22	10	1.1	21

6 contain the same schools; 1974 data are in data base 5; 1975 data are in data base 6. 2; 1974 data are in data base 4 contain the same schools; 1972 data are in data base and 5 and AData bases 2 B Data bases

^{*76} with complete data

<sup>**
62</sup> with complete data

Factor analyses of test and questionnaire cat were performed using data from the Southern Schools 1972 data base. Separate analyses were performed for elementary school and high school data.

In both elementary school and high school somples, separate achievement factors for black and white students were defined. These factors were used to identify the schools in the effective achievement categories and the respective comparison schools. Factor scores were entered in a regression analysis to remove background effects due to the same, the percent urban of the school district, the percent black students in the school, black student socioeconomic status, and white student socioeconomic status. The residual scores of the regression analysis identified outliers, i.e., schools which were markedly above the regression line and therefore better than expected on each of the factors.

To select schools effective in achievement, the residual factor scores for black and white student achievement were used. Effective schools were selected to maximize the distance above the regression line of both black and white achievement scores; both scores must have been above the regression line and one score more than one standard error above. A decision was made to select the average rather than the poorest performing schools as comparisons; therefore, outliers well below the regression line were not selected as comparison schools. Comparison schools were selected on the basis of scores at or near the regression line. The reason for selecting comparison schools near the regression line was that it appeared probable that the factors responsible for very poor achievement might be different from those that distinguish between schools that are excellent and average in achievement.

In 1972, when the initial data were collected, many of these schools were newly

Table 1-2 Distribution of the 1974 Survey Schooles

-	Southern Sample		Supplementary Sample		
	Fifth	Tenth	Fifth	Tenth	
Achievement					
Effective	13	16	14	7	
Comparison	13	16	14	7	
Race Relations			· •-		
Effective	11	12	1		
Comparison	17	12	(148)	(10)	
Total	43	56 [*]	46	24	

^{*}Litually only 48 different schools since some schools served double duty, e.g., effective in both mace relations and achievement.

invegraces. Some had experienced a year of serious disorganization. It was believed that an effort to discover differences among schools that were at least narrially successful would lead to more generalizable conclusions.

Therefore, the greater variance that would have resulted from choosing schools far minor the regression lime was sacrificed in exchange for emphasis on what was an eved to be a more mormal range of school functioning.

The rationale for the election of schools effective in race relations was similar, but was complicated by the multivariate nature of the criterion. A configural approach to identifying effective schools was used. Selection of effective elementary schools was made with an attempt to maximize distance above the regression line on several dimensions. Standardized residual scores on four factors were computed. The factors were black and white student racial attitudes interracial aggression, and teacher evaluation of integration. To be selected as effective a school had to have at least two measures one standard error shove the regression line, and no measures more than one-half of a standard error below the line. Comparison schools at or near the regression line were selected from the same school destricts whenever possible.

High schools with everage of effective race relations were selected on besis of the standardized residual scores on six factors. The factors were with students radial attitudes, amount of aggression, positive radial comtact, students radial attitudes, and their evaluation of integration, teachers' evaluation of integration, and white students' evaluation of integration.

Schools were characterized as:

- + (more than one standard error above the regression estimate)
- ·- (more than one standard error below the regression estimate)
- o (within one standard error of the regression estimate)



The criterion for a school's being selected as an effective school was either (a) at least two pluses and no minuses, or (b) three or more pluses and one minus.

Comparison schools were selected in the same manner as elementary comparison schools.

The 1974 total sample. The Southern schools described above were supplemented by 46 elementary schools and 24 high schools from the Northern and Western parts of the country. The classification of these supplementary schools is presented in Table 1-2.

The schools classified as effective in achievement and their comparison schools were selected from dama bases that contained information about achievement scores recorded by school. At least 17 states were contacted about the availability of statewide data bases from which ETS might make school selections. In addition, school districts in several states were contacted. Two large presearch data bases were investigated and the Office for Civil Rights data there as well. All of these data bases had been assembled for purposes different and those of the present study and had some inherent limitations:

- (1) There were no systematic collections of data meaning directly on the quality of race relations in schools.
- (2) Activement data were more readily available for elementary schools than for high schools.
- (3) Existing data bases did not report achievement data for black and white students separately

Because of the difficulty of finding appropriate data hases, the procedures for selecting achievement schools differed from the procedures for selecting race-relations schools.



The selection of schools in the effective achievement category was made according to the following criteria:

- (1) Only data bases which contained one or more control variables, such as SES along with achievement were considered.
- (2) A regression analysis was run with achievement as the dependent variable. Whenever data were available this analysis was repeated for several years and several grades.
- (3) A school was selected as a condidate for effective achievement if its achievement score was at least one standard error above the regression line and if its school population was between 10 and 90 percent black
- (4) When a data base sufficiently large to define a regression line was lacking, an estimate of the regression line was formed on one of the larger data bases. This yielded a fallible but somewhat better than ignorant measure.

Comparison schools were selected from the same school district whenever possible on the basis of scores at it mean the regression line.

Since no available data hases provided information about race relations. In non-Southern schools, mapples of elementary and high achools were chosen without information about their prior these relations. In these schools a reduced amount of data we collected, in order to select schools for further study in 1975. Most of the schools of school districts were nominated by knowledgeable researchers or school officials as being particularly effective in race relations. The nomination procedure was useful for identifying candidate schools, but there was no very no verify the nominations and the nominations were not used as measures in the analysis.

The total 1974 sample (data base 5) is the commination of the sample of Southern schools selected from the 1972 sample (data mase 3) and the supplementary sample of Northern and Western achools.



The 1975 total sample. In 1975, 21 high schools and 22 elementary schools were selected. The primary purpose of the 1975 sample was to obtain cases and examples of methods to improve race relations. The schools were chosen to represent (a) schools with eveidence of effective race relations in 1974, and (b) comparison schools.

Selection of 1975 schools was based upon ranking of composite race relations scores developed separately for black and white students at each grade level. Variance due to background was removed and the black and white residual composite scores were ranked across the 94 elementary schools and 76 high schools of the 1974 total sample. Ranks for the black and white composites were summed and schools were ranked according to the combined score. The decision to select 1975 schools on the basis of race-relations results but not achievement results was made after preliminary analysis of 1974 data indicated that school effects and cross-year consistency were greater for race relations than for achievement.

The five or six highest ranking Northern and Southern schools were selected as effective schools in both the elementary and secondary categories. To be finally selected, a school had to (a) have a racial composition in the sample that corresponded to the racial composition of the school and (b) be ranked highly for both black and white student outcomes. Comparison schools were selected from the low end of the rankings according to the same criteria. During the selection process the percentage of black students in both the effective and comparison schools was examined in order to produce sets of schools similar in this regard.



Distribution of schools in the 1975 data base is given in Table 1-3.

Data base 6 as described in Table 1-1 comprises the 1975 data from these schools.

Data base 5 comprises the 1974 data from the same schools.

Table 1-3
Distribution of the 1975 Schools

	Southern	Sample	Northern	Sample
	Fifth	Tenth	.Fifth	Tenth
Effective in Race Relations	6	- 6	6	5
Comparison	5	5	5	5
Total	11 .	11-	11	10

Respondents and Instruments

The respondents in each sample are described in Tables 1-4 (elementary schools) and 1-5 (high schools).

The questionnaires are reproduced in Appendix A. Their content is described in Chapter 2. The student questionnaires and achievement tests were administered by trained members of the contractor's staff. There were two examiners in each session. Questionnaires for staff members were distributed in advance by mail or in person, and picked up by the examiners on the day of the testing. In 1974 the principal's interview was conducted by an examiner during the visit to test students.

	Procedures
	Sampling
	and
	spondents
•	School Re
•	ementary

Date Bases 1 & 2ª	Rei	Respondents	
	Students	Teachers	Principal
Number of Respondents	Approximately 53 .	10	
Selection Strategy	2 or 3 classes: a stratified sample based	Random selection from lists of	
	~ 44	teachers fitting these catagories: 3 grade 5 classroom teachers	
		4 grade 4 classroom teachers 1 counselor	•
		1 remedial reading teacher	
		1 gym teacher	
			-
⇔ Data Bases 3 - 6ª			•
Number of Respondents	Approximately 52	10	4
Selection Strategy		Random selection from lists of	
•	on nigh, middle, and low percentages of black students in 5th grade classes	<pre>teachers ilting these categories: 3 grade 5 classroom teachers (including teachers of the selected)</pre>	71

aDescribed in Table 1-1

classes)
5 grade 4 classroom teachers
5 grade 3 classroom teachers

I remedial/speech teachers

gym teacher

High School Respondents and Sampling Procedures

Data Bases 1 & 2ª		Respondents	•	
i	Students	Teachers	G. Counselors	Principal
Respondents	Approximately 51	1.0	Hone	Эн
Selection Strategy	2 OF 3 classes; a stratified sample based on high, middle, and low percentages of black students in 10th grade English classes	Random selection from lists of feachers fitting these categories:		
	•	3 Math teachers • 2 History/social studies teachers		
4.0		1 Gym teacher	· ·	-
Data Bases 3 - 6				19
Respondents	Approximately 60	10	ର୍ଜ	-
Selection Strategy	of or 3 classes; a stratified sample based on high, middle, and low percentages of black students in 10th grade English classes	Random selection from lists of teachers fitting these categories: 4 English teachers (including teachers of the selected	Random selection but including the 10th grade counselor(s)	101
		classes) 2 business teachers 1 Voc. Ed. teacher 1 Home Ec. teacher 2 Phys. Ed. teacher		
	•		÷	

Chapter 2

Variables and Measures

The data base for this study is complex. It contains multiple items of information, from multiple respondents, obtained in different phases of the the study. In order to identify findings of theoretical and practical significance, it is necessary to combine items into conceptual variables and statistical measures. This task inevitably requires judgment. The methods used in the study reflect the judgments of the authors. Other interpreters and other analysts will undoubtedly prefer other ways of conceptualizing and measuring variables. Indeed, the authors themselves could not maintain a thoroughly consistent mode of conceptualization over the years of dealing with the data. We have tried to maintain consistent methods of treating variables in different analyses, different levels of schooling, and different years. It was not always possible to do so. As a result, it will be necessary to describe variations in measures used in specific analyses.

This chapter sets out the concepts that determined how major variables were defined and measured for statistical analysis. The focus of this chapter is on the 1974 data base, the major source of statistical results. The items and composites discussed in this chapter are from that set of data. Specific variations with regard to other data bases will be described as they become appropriate.

The questions that underlie the analyses are these: Are there characteristics of schools that are systematically related to desirable student outcomes?
To what degree are these relationships independent of socioeconomic backgrounds

of the students, the geographical location of the schools, and the racial composition of the student bodies? In order to examine such relationships systematically, we have divided the variables of the study into three categories, termed (a) student outcome measures, (b) school conditions, also termed school characteristics and educational process variables, and (c) background variables. In many instances, the assignment of particular variables to a category is arbitrary. For example, the characteristic racial attitude in the school, as perceived by students, might be considered both a measure of school characteristics and a measure of student outcome. Similarly, racial composition of the school is both a school characteristic and a background measure. We attempt in this section to make clear how variables were assigned to categories, and the rationale used in assignments. In interpreting results, one must keep in mind how the specific composites were defined.

Student Outcome Measures

Achievement Measures

The tests used in this study were the fifth grade and tenth grade forms of the Survey Test of Educational Achievement. The test was developed by NORC (1973) under the direction of Dr. R. Darrel Bock. It consists of a shortened version of five of the subtests of the STEP battery developed by ETS and was developed to provide reliable estimates of mean achievement levels for schools. There are forms for both fifth grade and tenth grade levels. Each includes subtests in five achievement areas: Reading, Mechanics of Writing, Mathematics Computation, Mathematics Basic Concepts, and Science.

Statistical analyses conducted by NORC indicated that the reliability of the test was satisfactory. Coefficients of generalizability for fifth grade



students ranged from .82 to .94 for different groups of students. Comparable coefficients for tenth grade students ranged from .84 to .91. The statistical results of the ESAP-II study indicated the Survey Test of Educational Achievement provided a satisfactory estimate of school mean achievement. For the analyses reported here, a summary score consisting of the first principal component of the five subtests was used. School means were computed separately for black and white students.

Race-Relations Measures

Race relations as a variable or set of variables poses more complications. Race relations is a multidimensional concept. Its components, conceptually, include the personal racial attitudes of students, the amount and nature of interracial contact, the students' perceptions of support for integration, the equality of treatment and opportunity for the races, and the degree to which students who are in the minority in a given school experience success and acceptance. The attempt to operationalize such a concept raises a series of conceptual and empirical questions. These questions have a direct bearing on the design of this study and the interpretation of the findings, because the measures of race relations constitute key dependent variables. They also have a broad bearing on the conceptualization of experitations for integrated schooling. The design of procedures and practices to facilitate successful integration presupposes awareness and understanding of the nature of race relations.

Among the conceptual and empirical questions to be posed in defining race relations are the following:

1. <u>Dimensionality</u>. Are there identifiable dimensions in a set of measurable indicators of race relations? This chapter outlines the measures of schools used in the analysis.



- 2. Construction of measures. What composites and scaling procedures are to be used as measures of composites of race relations? What properties do the resulting scales have?
- 3. Meaning of the measures. How are the measures interrelated? How do they relate to other characteristics of the student body? To what degree should they be considered measures of separate constructs or different measures of the same constructs?
- 4. Similarity of measures for minority and majority students. A scale might have the same items and the same weights and yet have different psychological interpretations for black and white students. For example, does amount of interracial contact have the same interpretation and significance for black students as for white students? Do black and white students share perceptions of the support for integration and equality of treatment and opportunity? It is critically important that similarities and differences in these perspectives be understood and taken into account, both in the interpretation of research and in policy formulation. To fail to do so is to risk a culturally bound definition of desirable outcomes of integrated schooling and to put forward explanations and proposals that may emphasize the perceptions of one race at the expense of the other.
- 5. Relationship of race-relations measures to school conditions and practices. Are there school characteristics systematically associated with desirable race-relations measures? Are different facets of race relations consistently related to the same school characteristics? Can race-relations measures be defensibly interpreted as outcomes of schooling that have particular identifiable characteristics? These questions constitute the main focus of this project and this report and key questions for formulating policy



regarding the integration process.

6. Relative importance of facets of race relations. Assuming that there are indeed multiple dimensions in a conceptually acceptable collection of race-relations indicators, which should receive major attention? Educationally, this question is critical, because it goes to the point of defining the educational objectives to be sought. Therefore, it will determine where emphasis is placed and resources concentrated in the development of instructional programs, support mechanisms, and facilities.

Questions 1 through 4 have to do with the nature and meaning of variations in race relations. Empirical questions focus on interrelationships of responses by students and on the relationships of responses to other attitudes and personal characteristics. These questions are the major focus of this chapter. Question 5 turns attention to school conditions and practices that exist and can be measured independently of the characteristics of the student body. In this report such variables are termed, for shorthand, process variables. The relation of process variables to achievement and race relations is described and discussed in detail in Chapters 3 and 4.

Question 6 is one of conceptualization and value. Throughout this report, we attempt to identify congruencies and conflicts among different conceptions of what constitutes good race relations, and to call attention to the implications of different choices.

Race-Relations Composites

Composite measures of race-relations variables were constructed and aggregated to the school level. The procedure for both elementary and high schools was as follows. First, items were grouped into conceptually meaningful



categories. Second, item responses were rescaled so that all of the items within a category were scored on the same score range. Third, the item scores were averaged to the school level separately for black and white students. Fourth, item sum correlations were computed across schools. Fifth, an item was retained in a category if (a) the item had a substantial correlation with the sum of items in its own category, and (b) the item did not have a higher correlation with the sum of another category. Items not meeting these conditions were dropped. Sixth, the sums of the remaining items were computed to constitute outcome scale scores.

Fifth grade race-relations composites. At the fifth grace level, two race-relations outcome composites were constructed. Their item content and the item-scale correlations are presented in Table 2-1.

The composite entitled Perceived School Racial Attitude might be interpreted either as a student outcome variable or as a process variable measured through students' perceptions. We have chosen to analyze this composite as a dependent variable, and to refer to it as a student outcome. The reason for this approach is that the perception of the environment as supportive of good racial attitude can be considered an important educational objective of integrated education. Perception by students of positive racial attitudes on the part of teachers and principal is therefore considered to be a criterion of good race relations in the school. In subsequent analyses, we ask what school characteristics (measured by means of teachers' and principals' responses) are associated with the degree to which students perceive race relations in the school to be positive.

Table 2-1

Fifth Grade

School Race Relations Measures

and the state of the state of the state of			Item-Scale Correlation
Pe	rceived	School Racial Attitude	B W
ES	18	Are any of the teachers in this school unfair to white students?	.39 .82
ES	69	How do you think your teacher feels about black and whate students going to the same school together?	6566
ES	70	How abou: the principal of your school—how do you think your principal feels about black and white students going to the same school together?	63 \ 54
ES	28	Are any of the teachers in this school unfair to black students?	.85 .81
<i>></i> -			<i>u</i> -₹
St	udent R	acial Attitude	4-1
∕. ES	68	If you could choose the kind of school you would go to, would you pick one with a racial mix of students?	8489
ES	25	Would you like to have more friends who are of a different race?	6988
ES	29	Are you afraid of most teachers of a different race from yourself?	.41 .63
ES	73	In general, do you think that white people are smarter than black people, black people are smarter than white people, or do you think that a person's color doesn't have anything to do with how smart he is?	.59 .60

47

a. 1974 data

Table 2-2

Tenth Grade

School Race-Relations Measures

	. \			
•				-Scale
Per	ceived	School Racial Attitude	В	W
НS	123	How do you think most of your teachers feel about blacks and whites going to the same school together?	52	41
HS	· 5 5	White students complaining that favoritism is being shown to black students.	.61	.77
HS	57	Black students complaining that favoritism is being shown to white students.	.81	.81
HS	5 8	Tensions have made it hard for everyone.	.75	.89
HS	59	Are any of the teachers in this school unfair to black students?	.83	.54
нѕ	65	Are any of the teachers in this school unfair to white students?	.31	.55
Stu	dent Ra	cial Attitude		4 *
HS	125	If you could choose the kind of school you would go to, would you pick one with with a racial mix of students?	79	88
HS'	35	Do you think your friends would think badly of you if you went someplace after school with a student of a different race?	.74	.78
HS	36	Would you like to have more friends who are of a different race?	62	89
HS	61	How uncomfortable do you feel around students of a different race?	.63	.68
нѕ	.149	In general, do you think that: White people are smarter than black people, that black people are smarter than white people, or do you think that a person's color doesn't have anything to do with how smart he is?	.19	.72

Table 2-2 (Continued)

. , ,		Tenth Grade		
	··		Item- Correl	Scale ation
Rac	ial Con	tact	В	W
нѕ	30	Think for a moment about the three students you talk with most often at this school. Are they the same race_as you?	.66	.80
нѕ	31	Have you ever called a student of a different race on the phone?	73	 85′
HS	32	This school year, have you helped a student from another race with schoolwork?	64	77
`HS	33	This school year, have you asked a student from another race to help you with your homework?	80	85
Sch	ool Fai	rness		\$
нѕ	22	At school, are you often blamed for things that just aren't your fault?	.65	.71
HS	74	Do you think most of the rules in this school are fair?	57	- - 70
HS	152	In the past year, were you ever sent to the office because someone thought you were breaking some rule?	,72	68
нѕ	92	When you get punished at school, does it usually seem it's for no good reason at all?	.56	.63

Examination of item-scale correlations across schools reveals that, for black students, teacher fairness to black students is the variable with greatest relevance to this composite. The teachers' and principals' attitude toward integration are also important contributors to the score. For white students, fairness to white students and fairness to black students are equally highly related to the composite. Therefore, for white students, more than for black students, the composite appears to represent a general perception of fairness. However, the white students measure is also substantially influenced by perceived teachers' and principals' attitudes toward integration. It seems reasonable to conclude that schools characterized by high scores on these measures are perceived by their students to provide adult attitudes supportive of positive racial attitudes.

The student racial attitude composite is measured for both races by a preference for integrated schooling, desire for friends of a different race, and the opinion that race doesn't account for smartness. Being afraid of teachers of a different race accounts for more variance in the white students measures than in those for black students, but is represented in measures for both races.

Tenth grade race-relations composites. Four outcome composites were defined for high schools. Their content is presented in Table 2-2.

The composite entitled <u>perceived school racial attitude</u> is characterized by descriptions of favoritism, unfairness to students, and tensions. The perceived attitude of teachers toward integration also contributes variance.

The student racial attitude composite differs in one respect for black and white tenth graders. In the white student measure, the opinion that race doesn't predict smartness has a substantial correlation with the composite. In



the black student measure, this item-scale correlation is low.

The <u>racial contact</u> composite reflects the degree of voluntary positive contact among black and white students.

The composite labeled school fairness does not include specific reference It was constructed because it represents a conceptually meaningful component of race relations in a school. The variable relates both to school perception and to self-perception. Students who are in a racial minority in an integrated school often complain that rules and procedures are biased in favor of the majority race. This perception relates, on the one hand, to the perceived fairness of rules and procedures. On the other hand, it reflects one's sense of personal efficacy. To the extent that rules are perceived as unfair and arbitrary, the students perceive fewer opportunities to exert personal control over what happens to them. In the present study, black students are in the minority in most of the sample schools. For this reason, special attention is focused on the responses of black students to this composite. It will be considered a desirable race-relations outcome if black students in a This is not to deny the importance of fairness for school report fairness. white students; as a measure of school integration, however, the response of minority students to this measure is of particular importance.

Properties of the Measures

An examination of empirical properties of the student outcome measures can shed light on the nature of achievement and race relations as school characteristics, and on the results relating race relations to the educational process. Two sets of data are presented in this section. Means and standard

deviations of the 1974 student outcome measures are given in Table 2-3 for the elementary school data and in Table 2-4 for the high school data. Inter-correlations among the student outcome measures are presented in Table 2-5 for the fifth grade and In Table 2-6 for the tenth grade.

The scale for race-relations outcomes ranged from -2.00 to +2.00. The positive end of the scales is the more favorable outcome. Elementary school means ranged from a low of -1.33 to a high of +1.83 for race-relations outcomes. High school means ranged from a low of -1.71 to a high of 1.68. The achievement sum is the total of the five subtests of the Survey Test of Educational Achievement. The possible range of scores is from zero to 57. Elementary school achievement score means ranged from 20.00 to 49.00. High school achievement score means ranged from 13.00 to 43.33.

Mean's and Standard Deviations

In the elementary schools, racial attitudes of black and white students are reasonably similar, but white students perceive racial attitudes in the school to be more positive than do black students. In high schools, black students express racial attitudes that are more positive on the average than do white students. However, black students perceive the schools to be less fair to students and somewhat less positive in racial attitude. These results suggest that discrimination and poor race relations are more likely to be viewed as a problem by black students than by white students in both elementary and high schools. In high schools, black students report more interracial contact than do white students? This finding reflects the fact that in most of the schools in the study, black students are in the minority. Therefore, there is more opportunity and more necessity for black students to experience

interracial contact. In both elementary and high schools, mean achievement scores of black students are substantially lower than those of white students.

Relationships between Black and White Measures

In Tables 2-5 and 2-6 the coefficients without parentheses are zeroorder correlations. Those in parentheses are partial correlation coefficients.

At the elementary school level black student and white student measures of both perceived school racial attitude and student racial attitude are positively correlated. This indicates (a) that schools perceived by black students as manifesting positive racial attitudes tend to be perceived similarly by white students, and (b) in schools where one race tends to have positive racial attitudes, so does the other race. The black and white student achievement measures are also positively correlated indicating that where one race is achieving, so is the other. These relationships hold true whether or not background variables are partialed out.

In Table 2-6, the underlined coefficients identify the variables in which black and white students responded to the same measures. There is significant consistency in black and white measures of perceived school racial attitude. On the other hand, unlike in elementary schools, there is no relationship between the personal racial attitudes of black and white students. That is, in high schools, the racial attitudes of white students do not predict the racial attitudes of black students, and vice versa. Interracial contact reported by black and white students is significantly correlated, and the correlation increases substantially when background variables are partialed out. There is also a positive relationship between the school fairness measures of black and white students both

Table 2-3 Fifth Grade

Means and Standard Deviations of 1974 Race Relations and Achievement Outcomes

w)	.30	6	<i>L</i> :
White Students Mean S.D.	. 85	1.26	38.42 4.47
	.39	.39	5.46
Black Students Mean S.D.	79.	1.17	28.75
Z	76	96	92
	Perceived School Racial Attitude	Student Racial Attitude	Achievement Sum
	•		

Table 2-4 Tenth Grade Means and Standard Deviations of 1974 Race

Relations and Achievement Outcomes

ســـــــــــــــــــــــــــــــــــــ			- :		
White Students Mean S.D.	. 44	.47	.54	.37	5.03
White S Mean	.20	54	28	.52	34,58
."			·. ·		
Black Students Mean S.D.	.45	.35	64.	• 39	5.33
Black S Mean	7.	96•	.10	.15	22.90
×	71	, 1	71	71	19
	Perceived School Racial Attitude	Student Racial Attitude	Racial Contact	School Fairness	Achievement Sum
		. /		<i>4</i> ,	٠.
. •	5 5	•			

Table 2-5 Fifth Grade

Correlations and Partial Correlations Among

1974 Student Outcome Measures^a

	Student Achievement	(W3)	.19 (2.18)	.13	.50**	.15
White Students	Student Racial Attitude	(w2)	.33**	.46** (.41**)	.33** (.22*)	. 39**
	Perceived School Racial Attitude	(M1)	.53**	.21	12 (24*)	1 1
	Student Achievement	(33)	.08 (0.09)	.28* (.30**)	1 1	-
Black Students	Student Racial Attitude	(B2)	.38**			·
	Perceived School Racial Attitude	(B1)	1 1			
			B1	B2	В3	ĽY.

56

Partial correlations are in parentheses. Black Student SES $^{
m a}_{
m N=76}$ schools with achievement and race relations data.

following background variables were partialed:

*p< .05 level **p< .01 level

White Student SES
Percent Black Students
Percent Urban
North/South Location

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q	9
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Tenth Grade

Correlations and Partial Correlations among 1974 Student Outcome Measures a,b

		PIBCK Students	udenta		*		WILE S	white Students			
	Perceived School Recial Attitude	Student Racial Attitude	Racial	School	Achlevement	Perceived School Racial Attitude	Student Racial Attitude	Racial	School Fairness	Achlevement	-
:	(B1)	(82)	· (B3)	(84)	(85)	(41)	(W2)	(W3)	(ħħ)	(45)	
181	1 1	.35** (.29*)	90°- (60°)	.48**	23 (08)	.48** (.52**)	.17 (.33**)	. (.23)	08	19 (.00)	
B 2		I I	.35**	.36##	,0°. (0°.)	.00. (01.)	- <u>.03</u> (<u>.06</u>)	.19	.02	, 13 (,22)	
្ឋ			1,1	.01	.12	.01 (:03)	.25* (.26*)	.30*	.18	.14 (.12)	
*	garage (garage)			t t	.19 (.25*)	.24 (,30*)	.22 (.26*)	.21	.33**	.10	-
B2		•			1 1	18 (09)	.10 (.00.)	.15	. 23	32**	3/
I.			ø	··	·	1 1	.35**	.01	.18	05 (02)	
W2		f.			•		1.1.	,662# (,66##)	,39** (,36**)	.30k (.29*)	
¥3								1. 1.	.14	.10	
5M	•			•			i i	• .	1 1	.69** (*88*)	
Ş	•						ţ	·		1	

AN = 60 schools with race relations and achievement data.

Partial correlations are in parentheses. The following background variables were partialed:
Black Student SES
White Student SES
Percent Black Students

*p <.05
Percent Urban
North/South Location

before and after controlling for background variables. Achievement scores of black and white high school students are significantly related to one another before correcting for background variables but not after correcting.

Intercorrelations among Measures

At the elementary school level, personal racial attitudes and perceived school racial attitudes are positively correlated for both black and white students. This indicates that students in elementary schools, regardless of their race, tend to perceive their own racial attitudes and those of other people in the school as similar. Schools characterized by positive student attitudes are also characterized by positive attitudes on the part of others, as perceived by students. Black student achievement is also significantly correlated with the personal racial attitudes of both black and white students. This congruence between attitudinal and achievement outcomes has implications for policy and planning and strengthens the assumption that school practices can be found which are relevant to both kinds of outcomes.

In high schools, partial correlations indicate that perception of school racial attitude by white students is more closely related to their own racial attitude and racial contact than it is for black students. Thus, when background variables are controlled, white students are more likely than black students to see the predominant racial attitude of the school as similar to their own racial attitude and racial contact. This is not true for zero-order correlations; when background variables are not controlled, student racial attitudes are unrelated to racial contact, and are related to perceived school racial attitudes similarly for black and white students. For black students, positive school racial attitudes are associated with their



perception of school fairness to a greater degree than is true for white students.

For white high school students, personal racial attitude and racial contact are very closely related when background variables are controlled. The correlation is high enough that, for white students, these variables may be considered alternative measures of the same variable. In schools where white students express positive racial attitudes, they also report substantial racial contact.

This relationship is positive but considerably less pronounced for black students. Racial contact is associated with the students' own racial attitude, but is apparently determined less exclusively by racial attitude for black students then for white students.

The fairness measure is more closely related to racial descriptors of the school for black students than for white students. As reported earlier, it is, for black students, significantly related to perception of school racial attitude. It also has a small, but significant, relationship to white students' racial attitudes and their perception of school racial attitudes.

Achievement is significantly related to perception of school fairness; the partial correlation is substantial for white students and low but significant for black students. White students' achievement is significantly correlated with white students' racial attitudes, before correction for background variables, but the partial correlation is not significant.

Implications

The fact that elementary school measures of race relations tend to be positively correlated across the races suggests that, in elementary school,



determinants of race relations tend to work similarly for black and white students. This leads to the expectation that school practices that are effective for improving outcome measures for one race will also be effective for improving them for the other race. There is sufficient independent variance in the measures to permit identification of independent contributors to the outcomes, but there is also reason to anticipate some consistency in determinants.

The situation is more complicated at the high school level. The racial attitudes expressed by black and white students are not related across schools. This suggests that different factors determine racial attitudes for black and white students. Educational policy and strategy may need to be based on different actions to improve black and white racial attitudes. On the other hand, black and white reports of school racial attitude are in better agreement.

The presence of association between black and white racial attitudes at the elementary level and the lack of such association at the high school level suggest that there are different social factors operating among the two age groups. The samples in this study were selected by sampling classrooms (fifth grade classrooms in elementary schools and tenth grade English classrooms in high schools). Therefore, the fifth graders in a given school shared a classroom and a teacher for the whole school day. The tenth graders, on the other hand, may have been together for no more than one period during the day. The fact that black and white students are in relatively greater agreement about perceived school racial attitude in elementary than in high schools may reflect this difference in amount of shared experience. Similarly, the greater similarity in personal racial attitudes may reflect greater shared school experience for the elementary school students in the sample.

It also seems plausible that for younger children the school serves as an influential shared environment. Social attitudes of both groups of students, therefore, respond to similar environmental-factors-at-the-elementary-school level. For adolescents, however, the school environment becomes a less influential part of the total social environment. Cultural differences may be more likely to emerge under this circumstance. Another possibility is that the differences between high schools and elementary schools are due to the students' experience with integration. Most elementary students in this study have been in integrated schools from the beginning of their schooling. Many high school students in the sample started in segregated schools. Thus black and white elementary students have had relatively more experience in shared school environments. There remain critical questions for future research. Will the simi larity of attitudes for fifth grade students persist as they grow older and go to high school, or is racial attitude increasingly susceptible to divergence as children grow older? Does increasing experience in integrated settings result in increasing convergence of racial attitudes?

Measures of School Conditions

The major sources of information about characteristics of schools are the data from principals, teachers, and guidance counselors. The principal of each school filled out a questionnaire and responded to an interview. Ten teachers from each school responded to a questionnaire. In high schools, three guidance counselors in each school filled out a questionnaire. Some of the individual items in these data sources are useful as measures of school conditions. For the most part, there is a need to group and scale items to produce a reduced

number of measures of conceptually important process variables.

In constructing all measures of process variables, the responses of the ten teachers and three guidance counselors in a school were averaged to obtain school means for each school. The variables and analyses described in this section pertain to the 1974 data base.

The first step in the construction of measures of school conditions was to group teacher, principal, and guidance counselor information into conceptually meaningful categories. The classifications are presented in Tables 2-7 and 2-8.

In the case of teacher variables, this classification was aided by a prior factor analysis of teacher items.

The second step was to extract the principal components from each group of items. This analysis supplied two results. First, it revealed whether or not the group of items was unidimensional. Second, it provided a composite of the items that maximized the homogeneity of the scales. Scores were computed for schools on the first principal components of each item group. These scores are used and interpreted in the later analyses when (a) the item group is unidimensional or (b) when there is more than one principal component, but the first principal component is interpretable as a useful process variable.

Tables 2-7 and 2-8 present the loading on the first principal components of item groups. There are some differences in the relative loading of different variables. In interpreting results that involve measures of school conditions, it is important to bear in mind the specific composition of each composite, as described in Tables 2-7 and 2-8.



Table 2-7

Fifth Grade

Composition of Teacher, Student, and Principal Process Variables Including Item Descriptions and Loadings of the First Principal Component

			•	
	I.D.	Loading	Description	Scale Direction
-	[-1 Teacher	s'Racial A	Attitudes	•
٠	TQ025	.69	Black students better off in mixed schools	high = yes
٠,	26	.83	White students better off in mixed schools	high = yes
	62	.63	The amount of prejudice is exaggerated	low = agreement
,	63	 84	Like to live in integrated neighborhood	low = agreement
	64	47	Civil Rights: More good than harm	low = agreement
,	65	.80	Blacks and whites should not intermarry	high = agreement
ž.	66	.83	Black failure due to white restriction	high = agreement
. <u></u>	Γ-2 Support	for Integ	gration	
	TQ187	. 7 [°] 5	Students like desegregation-	high = no
	188	.89	Principal likes desegregation	high = no
	189	. 86	Superintendent likes desegregation	hígh = no
	190	. 89	White teachers like desegregation	high = no
	191	.80	Black teachers like desegregation	high = no
·]	T-3 Absence	of Tensio	on .	
٠.,	TQ165	82	Evaluate desegregation	low = no problems
	166	.60	More fighting since desegregation	high = no
	172	.67	Tenseness between black and white students	high = no
	47	.61	The school atmosphere is tense	high = no
	176	.58	White discipline problems	high = low %
	177	.71,	Black discipline problems	bigh = low %
<u> </u>	-4 Teachers	Joh Att	itudes	· ·
o .	TQ041	, .69	Just too much work to do	high = no
	43	.40	Range of ability makes teaching hard	high = no
:	44	.61	No one to share responsibility	high = no
	46	.65	Don't have the training needed	high = no
		•		

^a1974 data

Table 2-7 (Continued)

Fifth Grade

T-5 Inte	rpersonal	Relations with Students		
TQ25	3 .81	How do you and black parents get along	high = warm,	open
. 25		. €	high = warm,	
25	5 .87		high = warm,	
25	6 .85	How do you and white students get along	high = warm,	opwn
26	1 .68	How do black and white students get along	high = warm,	Open-
T-6 Inte	rpersonal	Relations among Teachers		
TQ25	•	And the second of the second o	1-2-1	
25.		How do you and black-teachers get along	high = warm,	
_26			high ≠ warm,	
	•	300 000	high = warm,	open
T-7 Inte	rpersonal	Relations of Principal	o	
TQ25	0 .86	How do you and the principal get along	high = warm,	open
25	788	How do the principal and teachers get along	high = warm,	open
. 25	.91	How do principal & black students get along	high = warm,	open
259	9 .92	How do principal & white students get along	high = warm,	open
T-8 School	ol Autonor	my First Principal Component Correlations	i	
TQ26:	62	Influence of school board	high = much	
263	3 63	Influence of superintendent	high = much	
266	.68	Influence of black teachers	high = much	
267	.83	Influence of white teachers (high = much	
269	.83	Influence of black students	high = much	
270	.82	Influence of white students	high = much	
271	.72	Influence of black parents	high = much	Pi-
_272	.55	Influence of white parents	high = much	
T-9 Teach	er Autono	om <u>y</u>		æ
TQ242	. 55	Choice of jobs in this school		
244		Choice of kinds of students	high ≈ a lot	
245		Choice of textbooks	high ≈ a lot	•
247		Choice of own routine	high ≈ a lot	٠
248		Choice of own teaching style	high ≈ a lot	
, 268		Va 1 - 67	high ≈ a lot	
, , , , , ,		and a conce	high ≈ a lot	



Table 2-7 (Continued) Fifth Grade,

					J.
<u>T-</u> :	lO Inequal	lity of I	Black and White Students		
	TQ273	.35	Unequal support for de	seg: B & W teachers	high = bad
	274	.39	Unequal friendliness:	B & W teachers	high = bad
	276		Unequal friendliness:	B-&-W-students	-high =-bad
	277	.68	Unequal friendliness:	Prnts. B & W students	high = bad
	278	.75	Unequal influence: B	& W teachers	high = bad
	279	.75	Unequal influence: B	& W students	high = bad
	280	.72	Unequal influence: B	& W parents	high = bad
	281	.22	Unequal school mix for	B & W students	high = bad
	282	.38	Unequal black and whit	e discipline problems	high = bad ,
:	283	. 48	Unequal B & W grade le	vel performance	high = bad
	284	.62	Unequal teacher fairne	ss	high = bad
<u>T-</u>	ll Perceiv	ed Racia	al Differences		
	TQ218	.60	Black and white hoys:	Activity level	low = no difference
	219	.77		Read better	low = no difference
	220	.55		Musical	low = no difference
	221	. 68		Athletic	low = no difference
	222	.72		Adjusted to school	low = no difference
	223	.83		Quicker to catch on	low = no difference
	224	.78		More attentive	low = no difference
	225	. 64		Like to learn better	low = no difference
	226	°.76	o <u>r</u> .	Get along better	low = no difference
	227	.80		Achievement oriented	low = no difference
	228	.76		Cause more trouble	low = no difference
	229	.80		Need more help	low = no difference
	230	. 7.5	Black and white girls:	Activity level	low = no difference
	231	.82		Read better	low = no difference
	232	.66	×	Musical	low = no difference
	233	.73		Athletic	low = no difference
,	234	.77		Adjusted to school	low = no difference
	235	.86		Quicker to catch on	low = no difference
	236	.82	· · · · · · · · · · · · · · · · · · ·	More attentive	low = no difference
	237	. 66		Like to learn better	low = no difference
,	238	.75		Get along better	low = no difference
•	239	.82		Achievement oriented	low = no difference
	240	.62		Cause more trouble	low = no difference
	241	.79	65	Need more help	low = no difference
٠.		•	•		

Table 2-7 (Core inued) Fifth Grade

<u>T-</u>	12 Deseg	regation Pr	ocess	
	TQ167	.10	Minority groups demand ethnic studies	low = yes
•• .	` 168	.66	All students learning more	low ≈ yes
	170	.71	White students becoming less prejudiced	low ≈ yes
· .	171	.86	New educational programs improving schools	low = yes
<u>T-</u>	13 Teach	ing Style -	<u>1</u>	
	TQ130	.79	Time spent warning students	high = often
	131	.43	Time spent giving directions	high = often
	- 132	24	Time spent praising	high = often
	133	.53	Time spent scolding	high = often
	031	40	Preparation time	low = none
	032	01	Others ask advice of you	low = often
	038	67.	Projects on intergroup problems	low = no
	039	. 60	Class discussion about race	high = never
<u>T-</u>]	14 Teach	er Training		
	TQ028	.95	Amount of in-service training	high = much
	173	•90	Had training this year	high = yes
•	174		Evaluation of training	low = valuable
	175	. 27	Training changed thinking	high = xyes
<u>T-1</u>	L5 Achiev	vement Orie	ntation	,
	 ТQ042	.80	Many students won't try to learn	low = yes
	178	 75	Number of white students at grade level	low = many
	179	78	Number of black students at grade level	low = many
	204	.54	Achievement grouping of classrooms	low = helpful
	205	.59 🥕	Achievement grouping within classes	low = helpful
<u>T-1</u>	6 Race F	Relations Pr	ractices &	·
	TQ038	-:84	Projects on intergroup problems	low = no
	39	.82		low = often
	56	51	Number of years with students of other races	
	. 37	.5 9	Multi-ethnic texts	low = yes
•	167	.54	Demand for ethnic studies	low = yes



Table 2-7 (Continued) Fifth Grade

T-17 Evalua	tion of S	chool Services	
TQ195	.84	Guidance Counselors	low = helpful to race relations
196	.81	Social workers	low = helpful to race relations
197	.68	Teacher aides	low = helpful to race relations
T-18 Evalua	tion of Hu	ıman Relations Programs	Meapled to face relations
TQ210 [†]	.61	Parent-teacher contact	
211	.84		low = helpful to race relations
212	.79	· •	low = helpful to race relations
		intergroup relations: teachers	low = helpful to race relations
T-19 Evalua	tion of I	nstructional Programs	***
TQ198	.59	Teacher training	low = helpful to race relations
199	.56	Remedial reading	low = helpful to race relations
200	· .48 °	Vocational training	low = helpful to race relations.
202	.69	Classes for underachievers	low = helpful to race relations
203	.59	Classes for the maladjusted	low = helpful to race relations
204	.62	Achievement grouping of classrooms	low = helpful to race relations
205	.71	Achievement grouping within classes	low = helpful to race relations
209	· . 38	Tutoring programs	low = helpful to race relations
T-20 Extra	time on t	ask	
ET001	.15	Team teaching	low = yes
03	.90	Extra time on reading	low = no
04	.91	Extra time on math	low = no
T-21 Teache	r vs. Chi	ld-Centered Attitudes	
ET008	. 62	Regular routine	high = agreement
······································	~. 56 .	Students work best at what they prefer	high = agreement
10	.72	Sit still; pay attention	high = agreement
11 -	.01	Praise is best	high = agreement
12	54	Explore environment	high = agreement
13	.73	Textbooks important	high = agreement
14	29	Less structure; more discovery	high = agreement
15	.82	Quiet, orderly classroom	high = agreement
16	66	Busy, active, noisy classroom	high = agreement
17	54	Students should express feelings	high = agreement



Table 2-7 (Continued) Fifth Grade

•		
T-22 Structure		
ET005 .	71 Students must raise hands to talk	high = no
22 .	68 Individual instruction	high = yes
23	84 Free student movement	high = no
24	77 Noise level	high = qulet
TQ249 .	73 School strictness	high = easy going
T-23 Teaching St	cyle-2	•
TQ130 .	72 Time spent warning students	high = often
131 •	74 Time spent giving directions	high = often
132	35 Time spent praising	high = often
133	74 Time spent scolding	high = often
, 134	50 Time spent in class discussion	high = often '
S-1 Racial Conta	act Practices (B)	
ES017B	.64 Studied about black people	low = yes
•	.76 Racial mix at play	low = yes
	.70 Racial mix at work assignment	low = yes
	nct_Practices (W)	
	.60 Studied about black people	low = yes
	.78 Racial mix at play	low = yes
43W ·	.79 Racial mix at work assignment	low 5 yes
P-1 Principal's	Racial Attitude	
PI221 .5	Black students better off in mixed schools	high = yes
222 .7		high = yes
223 .6	Black failure due to white restrictions	high = agreement
224 .7	3 . The amount of prejudice is exaggerated	low = agreement
225 - 4	9 Like to live in an integrated neighborhood	low = agreement
2264	8 Civil Rights: more good than harm	low = agreement
22 7 . 6	Blacks and whites should not intermarry	low = agreement
P-2 Support for	Integration	
PI243	5 Principal liking for desegregation	high = no
	5 White teachers like desegregation	high = no
268 8		high = no
269 .7		high = no
<i>ž</i> 2709		high = no
RĬC	68	
at Provided by ERIC	00	<u> </u>

Table 2-7 (Continued) Fifth Grade

		a				•		•			
<u>P-3</u>	Absence	of Confli	lct Regardi	ng Disci	pline						
· .[]: /	PI192	. 66	Conflict	between	teachers	and	parents	high	= no	prob	lem
	196	.85					administration			-	
<u>.</u>	200	.78	Conflict					•	= no		
	205	.76		•		and	students	- .	= no	-	
· P-4	Absence	of Confl:	ict: Racia	-		· · · .			٠.		
	PI194	. 88			-	المسم	parents	10			
	198	.83	· //				administration				•
	202	.91	Conflict			anu					problem
•, •	207	.27	Conflict		: .	and	1				problem
•	187	1	Is there			•	. ,		= no		probrem ?
	1.90	42	Had facul				al issue s		= no		
P- 5	Absence	of Confl	ict: Abili	ty Grou	nina -				•		
			ALCO.			1,					
	PI193	.73	•	.*			parents				-
	, "			•	· .	and	administration	•			
	201	.81	Conflict	among to	eachers		e .	low:	= seri	ous.	problem
<u>P-6</u>	Absence	of Confl	ict: Instr	uctiona	Change				_ •		
. ,	PI 199	.92	Conflict	between	teachers	and	administration	low	= seri	ous	problem
	203	.92	Conflict	among to	eachers			low	= seri	ous	problem
<u>P-7</u>	Absence	of Princ	ipal's Pers	onal Cor	nflict		7 	٠		••	· · · · · · · · · · · · · · · · · · ·
•	PI209	.86	Working a	ıfter scl	nool hours	5		low :	= seri	ous	problem
	210	.90	Working w	eekends	•	··		low :	= seri	ous	problem
	。211	. 93	Receiving	phone o	alls at l	home		low :	= seri	ous.	problem
	212	.30	Evening f	unctions	at schoo	o1		low :	= seri	ous	problem
P-8	School	SES	85 T							/ - 5 - 5	and the second s
:	-					*****		1			L_ . :
•	PI164 166	.74	Percent d			a a b a a				- '	entage
:		.73 80	Percent o	• •							entage
	167 168	.70	Percent p				• •			_	entage
	169	76	Percent p								entage
	170	.72	Percent p				I.				entage entage
	171	79	Percent f				5.000			_	entage entage
	172	.80	Percent f						•		entage
<u> </u>		. • 00	rereent r	omaly II	.come and	·	69	10 w	TOW	PCLC	circage

Table 2-7 (Continued)

Fifth Grade

·		. /
P-9 Violent Behavior		
P1229 .54	Number fights requiring treatment	low = few
23001	Number of times lockers broken into	low = few
231 .84	Number of student robberies	low = few
232 .85	Number of attacks on a teacher	low ≠ few
233 .19	Number of robberies of school property	low = few
P-10 Principal's Inte	rpersonal Relations	
PQ125 .77	You and black teachers	high = warm, open
126 .78	You and white teachers	high = warm, open
127 .76°	You and black parents	/high = warm, open
128 .84	You and white parents /	high = warm, open
129 .89	You and black students	high = warm, open
130 .9 0	You and white students	high = warm, open
P-11 Inequality		/
PQ13310	Unequal friendliness: B & W teachers	high = bad
. 134 . 56	Unequal friendliness: B & W parents	high = bad
PI.256 .70	Unequal attendance by B & W parents	high = bad
257 .85	Unequal black & white parent visits	igh = bad
25834	Unequal black & white parents sent for	high = bad
P-12 Omitted		•
P-13 Principal's Job	<u>Attitude</u>	
PI234 .72	Principal can have important effect	low = yes
235 .72	How often do you worry about work	high = often
P-14 Evaluation of Ra	ce-Relations Programs	
PQ019	Minority culture courses	low = adequate
52 .77	Biracial advisory committee	low = adequate
P-15 Evaluation of In	structional Programs	
PQ010 .46	Teacher workshops	low = adequate
13 .65	Remedial reading	low = adequate
16 .66	Vocational training	low = adequate
22 .76	Classrooms for underachievers	low = adequate
25 .26	Classrooms for maladjusted	low = adequate
28 .33	Achievement grouping	low = adequate
40 .35	Tutoring program	low = adequate
C .	70	``

Table 2-7 (Continued) Fifth Grade

P-16 Evaluation of Human Relations Programs

PQ043	.82	Parent-teacher contact program	low =	ad e quate
46	. 86	Intergroup student relations program	low =	adequate
49	.77	Intergroup teacher relations program	low =	adequate

P-17 Evaluation of Services

rQ001	74	Guidance counselors adequate	·~	 low = adequate
04	.79	Home visitor adequate	٠.	 low = adequate
07	.41	Teacher aides adequate		 low = adequate

Table 2-8

Tenth Grade

Composition of Teacher, Principal, and Guidance Counselor Process Variables Including Item Descriptions and Loadings of the First Principal Component

I.D. Loading	Description	Scale Direction
T-1 Teachers Racial	Attitudes	
ro025 .53	Black students better off in mixed schools	high = yes
26 .84	White students better off in mixed schools	high = yes
62 .72	The amount of prejudice is exaggerated	low = agreement
6335	Like to live in integrated neighborhood	low = agreement
.6447	Civil Rights: More good than harm	low = agreement
65 .88	Blacks and whites should not intermarry	high = agreement
66 .73	Black failure due to white restriction	high = agreement
T-2 Support for Int	egration	
TQ187 .84	Students like desegregation	high = no
188 .87	Principal likes desegregation	high = no
189 .80	Superintendent likes desegregation	high = no
190 .89	White teachers like desegregation	high = no
191 .87	Black teachers like desegregation	high = no
. T-3 Absence of Tens	<u>ion</u>	
TQ16584	Evaluate desegregation	low = no problems
166 .73	More fighting since desegregation	high = no
172 .81	Tenseness between black and wnite students	high = no
47 .75	The school atmosphere is tense	high = no
176 .59	White discipline problems	high = low %
177 .74	Black discipline problems	high" = low %
T-4 Teachers' Job A	<u>ttitudes</u>	
TQ041 .66	Just too much work to do	high = no
43 .62	Range of ability makes teaching hard	high = no
44 .35	No one to share responsibility	high = no
46 .60	Don't have the training needed	high = no

^a1974 data

Table 2-8 (Continued) Tenth Grade

	1					
<u>T-5</u>	Interper	sonal R	elations with Students			
·.	TQ253	.82	How do you and black parents get along	high =	warm,	; open
	254	.82	How do you and white parents get along	high =		_
ii.	255	.82	How do you and black students get along	high =	warm	open
	256	.83	How do you and white students get along	high =	warm,	opwn
	261	.38	How do black and white students get along	high =	warm,	open
<u>T-6</u>	Interper	sonal R	elations among Teachers	,		•
	TQ251	.60	How do you and black teachers get along	high =	warm,	open
·	_{//} 252	.85	How do you and white teachers get along		warm,	- :
	260	.87	How do black and white teachers get along		warm,	
<u>T</u> -7	Interper	sonal R	elations of Principal			
	TQ250	.78			•	
	257	.84	How do you and the principal get along			
	258	.85	How do the principal and teachers get along			
	259	.88	How do principal & black students get along How do principal & white students get along		•	
m. 0			now do principal a wifte students get atong	IIIgii -	warm,	open
1-0	School A	utonomy				C_1
•	TQ262	51	Influence of school board	high =	much	
•	263	38	Influence of superintendent	high =	much.	
	266	.73 °	Influence of black teachers	high =	much	
	267	.65	Influence of white teachers	high =	much	us.
	269	.84	Influence of black students	high =	much	•
	270	.76	Influence of white students	high =	much	
	271	.70	Influence of black parents	high =	much	- •
	272	.54	Influence of white parents	high =	much	*
<u>T-9</u>	Teacher A	Autonomy	2			
	TQ242	.49	Choice of jobs in this school	high =	a lot	
	244	.66	Choice of kinds of students	high =		
	245	.69	Choice of textbooks	high =		
· · ·	247	.68	Choice of own routine	high =		
•	248	.57	Choice of own teaching style	_	a lot	
	268	.56	Your influence	high =	a lot	
					•	



	Inequality	_	~ 1	_ 1	777 /	C
313.0	Impaniation	\sim t	KIOCE	ากก	white	STUDENTS
1-10	THEUUATICY	O.L	Drack	and	MITTEC	Dragotteo

				•
TQ273	02	Unequal support for de	seg: 8 & W teachers	high = bad
274	65	Unequal friendliness:	B & W teachers	high = bad
276	. 25	\Unequal friendliness:	B & W students	high = bad
277	.70	Unequal friendliness:	Prnts. B & W students	high = bad
278	.76	Unequal influence: B	& W teachers	high = bad
279	.79	Unequal influence: B	& W students	high = bad
280	.75	Unequal influence: B	& W parents	high = bad
281	.30	Unequal school mix for	B & W students	high = bad
282	.12	Unequal black and whit	e discipline problems	high = bad
283	.00	Unequal B & W grade le	vel performance	high = bad
284	.51	Unequal teacher fairne	ess .	high = bad
T-11 Percei	ved Racia	1 Differences	/ ಪ	
TQ218	.46	Black and white boys:	Activity level	low = no difference
219	.61		Read better	low = no difference
220	.23	•	Musical	low = no difference
221	.21		Athletic	Now = no difference
222	.46		Adjusted to school	low = no difference
223	.7 5	•	Quicker to catch on	low = no difference
224:	.49		More attentive	low = no difference
225	.64		Like to learn better	low = nc difference
226	.68		Get along better	low = no difference
227	.60		Achievement oriented	low = no difference
228	.44		Cause more trouble	low = no difference
229	.63		Need more help	low = no difference
230	.64	Black and white girls:	Activity level	low = no difference
231 -	.7 5		Read better	low = no difference
232	. 24		Musical	low = no difference
233	.30		Athletic	low = no difference
234	.70		Adjusted to school	low = no difference
235	.80	•	Quicker to catch on	low = no difference
236	.73		More attentive	low = no difference
237	.67		Like to learn better	low = no difference
238	.71		Get along better	lou = no difference
239	.79		Achievement oriented	low = no difference
240	.58		Cause more trouble	low = no difference
241	.70	74	Need more help	low = no difference

Table 2-8 (Continued)

Tenth Grade

T-12 Desegregation Process

	TQ167	08	Minority groups demand ethnic studies	low = yes
	168	.80	All students learning more	low = yes
	170	.73	White students becoming less prejudiced	low = yes
_)	171	.87	New educational programs improving schools	low = yes

T-13 Teaching Style -1

TQ130	.74	Time spent warning students	high = often
131	.37	Time spent giving directions	high = often
132	15	Time spent praising	high = often
133	.76	Time spent scolding	high = often
031	59	Preparation time	low = none
032	.56	Others ask advice of you	low = often
038	26	Projects on intergroup problems	low =no
039	.45	Class discussion on race	high = never
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

T-14 Teacher Training

TQ028	.91	Amount of in-service training	high = much
173	.84	Had training this year	high = yes
174	46	Evaluation of training	low = valuable
175	. 57 .	Training changed thinking	high = yes

T-15 Evaluation of Principal

	١		•
TQ051	.84	Rate principal	low = best
-163	.75	Supportive of black teachers	low = yes
164	.75	Supportive of white teachers	low = yes
185	 07	Spoken of unfairness to black students	low = yes
186 `	16	Spoken of unfairness to white students	low = yes
264	72	Influence of the principal	high = most
265	40	Influence of the assistant principal	high = most
HT039	.02	ues college prep. over vocational ed.	low = yes





T-16	Multi-racial	Teaching

TQ037	.66	Multi-ethnic texts	low = yes
38	78	Projects on intergroup problems	low = no
39	. 68	Class discussion on race	low = often
201	.50	Minority group history	low = helpful to race relations
213	05	Biracial advisory committee	low = helpful to race relations
HT025	.59	New biracial activities this year	low = yes
26,	22	Clubs, teams integrated	low = yes
27	17	Official steps taken to integrate clubs	low = yes

T-17 Evaluation of School Services

TQ195	.79	Guidance counselor	s			low = helpful to race relations	
196	•77	Social workers	•			low = helpful to race relations	
197	.65	Teacher aides		Ç	.6	low = helpful to race relations	j

T-18 Evaluation of Human-Relations Programs

TQ210	.76	Parent-teacher contact	low = helpful to race relations
211	.82	Intergroup relations: students	low = helpful to race relations
212	.84	Intergroup relations: teachers	low = helpful to race relations

T-19 Evaluation of Instructional Programs

,		· /
TQ198 .24	. Teacher training	low = helpful to race relations
. 199 . 56	Remedial reading	low = helpful to race relations
200 .62	Vocational train vg	low = helpful to race relations
202 .75	Classes for underachievers	low = helpful to race relations
203 .62	Classes for the maladjusted	low = helpful to race relations.
20466	Achievement grouping of classrooms	low = helpful to race relations
205 .58	Achievement grouping within classes	low = heipful to race relations
209 .31	Tutoring programs	low = helpful to race relations

T-20 Teaching Style -2

TQ130	.87	Time spent warning students	high = often
131	.50	Time spent giving directions	high = often
132	.13	Time spent praising	high = often
133	.86	Time spent scolding	high = often
134	08	Time spent in class discussion	high = often



<u>P-1</u>	Principa	al's Racia	l Attitude	
4	PI221	. 54	Black students better off in mixed schools	high = yes
	222	. 64	White students better off in mixed schools	high = yes
	223	.76	Black failure due to white restrictions	high = agreement
	224.	.58	The amount of prejudice is exaggerated	low = agreement
	225	65	Like to live in an integrated neighborhood	low = agreement
	226	08	Civil Rights: more good than harm	low = agreement
*	227	.75	Blacks and whites should not intermarry	low = agreement '
<u>P-2</u>	Support	for Integ	ration	
	PI 243	. 57	Principal liking for desegregation	high = no
	267	.78	White teachers like desegregation	high = no
	268	.83	Black teachers like desegregation	high = 'o
	269	.71	Your superior likes desegregation	high = no
,	270	.87	Superintendent likes desegregation	high = no
P-3	Absence	of Confli	ct Regarding Discipline	
	PI192	.68	Conflict between teachers and parents	high = no problem
$\sqrt{}$	196	.85	Conflict between teachers and administration	high = no problem
. \	200	. 87	Conflict among teachers	high = no problem
. \	205	.76	Conflict between teachers and students	high = no problem
P-4	Absence	of Confli	ct: Racial Issues	4
•	PI194	.77	Conflict between teachers and parents	low = serious problem
Q	198	.81	Conflict between teachers and administration	low = serious problem
	202	.74	Conflict among teachers	low = serious problem
	207	.41	Conflict between teachers and students	low = serious problem
	187	.44	Is there a contingency plan	high = no
	190	.61	Had faculty meetings on racial issues	high = no
P-5	Absence	of Confli	ct: Ability Grouping	
	PI193	.79	Conflict between teachers and parents	low = serious problem
ببحة	^ 197	.90	Conflict between teachers and administration	low = serious problem
	201	.81	Conflict among teachers	low = serious problem
<u>P-6</u>	Absence	of Confli	ct: Instructional Change	
	PI199	.92	Conflict between teachers and administration	low * serious problem
	203	.92	Conflict among teachers	low = serious problem
			•	



Ē	2-7 Absence	of Prin	ncipal's Personal Conflict		e e
	PI 209	.91	Working after school hours		low = serious problem
	210	.95	Working weekends		low = serious problem
	211	.88	Receiving phone calls at home		low = serious problem
	212	.09	Evening functions at school	٠.	low = serious problem
<u>F</u>	-8 School S	SES.		•	
	PI164	.61	Percent disadvantaged		low = low percentage
	166	.74	Percent of free school lunches	^	low = low percentage
	167	67	Percent parents college graduates		low = low percentage
	168	.50	Percent parents not beyond high school		low = low percentage
	169	55	Percent parents professionals		low = low percentage
	170	.81	Percent parents unskilled		low = low percentage
	171	68	Percent family income over \$15,000		low = !ow percentage
	172	.82	Percent family income under \$8,000		low = low percentage
Ē	-9 Violent	Behavic	o <u>r</u>		
	PI229	.72	Number fights requiring treatment		low = few
	230	.42:	Number of times lockers broken into		low = few
	231	.54	Number of student robberies		low = few
	232	.74	Number of attacks on a teacher		low = few
	233	.78	Number of robberies of school property	·	low = few
P	-10 Princip	al's Ir	nterpersonal Relations		
	PI 124	. 59	You and administration		high = warm, open
	125	.83	You and black teachers		high = warm, open
	126	.78	You and white teachers		high = warm, open
	127	.72	You and black parents	* .	high = warm, open
	128	.73	You and white parents		high = warm, open
	129	.79	You and black students		high = warm, open
•	130	.80	You and white students	~	high = warm, open
P	-11 Inequal	.ity			
	PQ133	.25	Unequal friendliness: B & W teachers		high = bad
	134	.52	Unequal friendliness: B & W parents	;	high = bad
	PI256	.72			high = bad
	257	.84	Unequal black & white parent visits	•	high = bed
0	258	.74	*Unequal black & white parents sent for	. ,	high = bad
1	and the second s				•



P-12 Omitted

P-13 Princip	pal's Joh	Attitude	
PI234	.77	Principal can have important effect	low = yes
235	.77	How often do you worry about work	high = often
P-14 Evaluat	tion of I	Race-Relations Programs	• '
PQ019	.71	Minority culture courses	low = adequate
52	.71	Biracial advisory committee	low = adequate
P-15 Evaluat	tion of]	Instructional Programs	
PQ010	.53	Teacher workshops	low = adequate
13	.38	Remedial reading	low = adequate
. 16	.40	Vocational training	low = adequate
. 22	.73	Classrooms for underachievers	low = adequate
25	.68	Classrooms for maladjusted	low = adequate
28	.60	Achievement grouping /	low = adequate
40	.61	Tutoring program	low = adequate
P-16 Evaluat	tion of l	Human-Relations Programs	· · · · · · · · · · · · · · · · · · ·
PQ043	.65	Parent-teacher contact program	low = adequate
46	.90	Intergroup student relations program	low = adequate
49	.90	Intergroup teacher relations program	low = adequate
P-17 Evaluat	ion of S	ervices	
PQ001	.77	Guidance counselors adequate	low = adequate
04	.78	Home visitor adequate	low = adequate
. 07	.03	Teacher aides adequate	low = adequate
C-1 Counselo	ors' Raci	al Attitudes	
GC064	76	The amount of prejudice is exaggerated	low = agreement
65	.71	Like to live in integrated neighborhood	low = agreement
66	. 48	Civil Rights: more good than harm	low = agreement
. 67	77	Blacks and whites should not intermerry	low = agreement
68	.75	Black/failure due to white restrictions	high = agreement



C-2	Rules	and	Discipline	

~~				·		
·	GC108	.66	Skipping:	student spoken to		high = often
	109	.78		parents informed		high = often
	110	.65		parent conference	<u></u> ;	high = often
` \. •	111	.23		privileges restricte	∍d	high = often
İ	. 112	.15		kept after school		high = often
Ì	113	04		suspended	3.	high = often
\.	125	09		dropped	•	high = often
1	116	76		nothing done		high = often
	117	.72	Rules enfo	rced: disruptive bel	navior	high = strictly
	.\ 118	.81	•	destroying pro	perty	high = strictly
	\ 119	. 49		dress code vio	olations,	high = strictly
-	120	.72		cutting classe	3 <u>8</u>	high = strictly
	121	.43		smoking cigare	ettes	high = strictly
	122	.71		fighting		high = strictly
	123	.44		drug use		high = strictly
	124	.53		back talk		high = strictly
	125	.52		weapons	5	high. = strictly
C-3	Guidan	ce Counse	lor Duties	••••••••••••••••••••••••••••••••••••••		· · ·
	GC127	.57	Percent ti	me spent scheduling		high = a lot
	128	.50	Percent ti	me handling discipling	ne	high = a lot
•	130	92	Percent ti	me academic counselir	ng	high = a lot
	1 31	.36	Percent ti	me personal counselin	ng	$high = a \cdot lot$
C-4	Percei	ved Racia	l Differences			
	GC182:	√.57	B & 11 boys	: Activity level	. "	low = no differ

GC182	1.57	B & II boys:	Activity level	low = no difference
183	.63		Successful in academics	low = no difference
184	.54		Better - vocational	low = no difference
185	.\36		Ath kates	low = no difference
186	.67		Adjusted in school	low = no difference
187	.60		Better - business courses	low = no difference
188	.45		Pay more attention	low = no difference
189	. 34		Like to counsel	low = no difference
190	.48		Get along better socially	low = no difference
191	.68		More achievement oriented	low = no difference
192	.58		Cause more trouble	low = no difference
193	.46		Need more help	low = no difference

•				•
C-4 (Contin	ued)			
GC194	.54	B & W girls:	Activity level	low = no difference
195	.62		Successful in academics	low = no difference
· 196	.61	2	Better - vocational	low = no difference
197	.42		Athletes/	low = no difference
198	.63	a a	Adjusted in school	low = no difference
199	.53		Better - business courses	low = no difference
200	.61		Pay more attention	low = no difference
201	. 29		Like to counsel	low = no difference
202	.40		Get along better socially	low = no difference
203	.58		More achievement oriented	low = no difference /
204	.58		Cause more trouble	low = no difference
205	.42		Need more help	low = no difference
C-5 Evaluat	ion of Fa	acilities	•	
GC207	.65	Gym		high = good
209	. 55	Media Center		high = good
210	.65	Language Lab		high = good
211	.76	Science Lab		high = good
213	.27	Computer Lab		high = good
214	.80	Arts & Crafts	s facilities	high = good
215	.76	Glee Club fac	ilities	high = good
217	. 78	Theatre Arts	facilities .	high = good
218	.58	Home Economic	es	high = good
219	.68	Typing facili	lties	high = good
221	1. 70 ⁻	Work-Study pr	rograms	high = good
222	.51	Auto Mechanic	s facilities	high = good
223	.52	Woodworking f	acilities	high = good
C-6 Counsel	ing/Pract	tices		
GC270	.41	Students help	ed to plan own programs	high = often
273 °	.82		coblems sent to other schools	high = often
276	61	Ţ., J	ose own counselor	high = often

C-7 Interpersonal Relations of Principal GC 296 .78 How do you and the principal get along high = warm, open How do principal and teachers get along 303 .86 high = warm, open How do principal and B students get along 304 .94 high = warm, open 305 .94 How do principal and W students get along high = warm, open C-8 Interpersonal Relations with Teachers GC297 .87 How do you and black teachers get along high = warm, open 298 .89 How do you and white teachers get along high = warm, open 306 .79. How do black & white teachers get along high = warm, open C-9 Interpersonal Relations: Parents, Students GC299 .82 How do you and black parents get along high = warm, open .80 300 How do you and white parents 'get, along high = warm, open 301 .70 How do you and black students get along high = warm, open 302 How do you and white students get along. .67 high = warm, open 307 .62 How do black and white students get along high = warm, open C-10 Evaluation of Race-Relations Programs GC253 .81 Minority culture courses low = helpful 265 .81 Biracial advisory committee low = helpful C-11 Evaluation of Instructional Programs GC250 .32 Teacher workshops low = helpful 251 .66 Remedial reading low = helpful 252 .74 Vocational training low = nelpful' Classrooms for underachievers .76 254 low = helpful 255 .63 Classrooms for maladjusted low = helpful 256 .45 Achievement grouping of classrooms low = helpful 257 .51 Achievement grouping within classes low = helpful Tutoring program 261 .66 low = helpful C-12 Eva¹uation of Human-Relations Programs GC262 : Parent-contact program .84 low = helpful 263 .85 Student intergroup relations low = helpful - 264 .67 Teacher intergroup relations low = helpful C-13 Evaluation of Services GC247 .76 Guidance counselors Icw = helpful Social worker 248 .78 low = helpful!

82

low = helpful

. 25

Teacher aides

249

All of the teacher composites are based on the pooled responses of the 10 teachers in each school. Schools vary on these composites according to the mean responses of the sample of teachers. At the elementary school level the sample of teachers usually covers all of the fifth grade teachers in the school, and some fourth and third grade teachers. Therefore, the teacher sample is likely to include the teachers with the greatest influence on the sampled students. At the high school level, the sample of teachers is drawn from a more diverse population. There is no necessary connection between the sampled high school teachers and the sampled high school students. Therefore, at the high school level, the teacher measures should be thought of as an estimate of predominant teacher responses throughout the school. At the elementary school level, teacher responses are more direct measures of the teachers who interact with the sampled students.

The composite teacher variables are presented first in Tables 2-7 and 2-8. These tables show, for each component variable, the source in the teacher questionnaire, a brief description, an indication of the direction in which it is scored, and its loading on the first principal component of the group of items to which it is assigned. Loadings on first principal components are shown separately for high schools and elementary schools.

In interpreting results, it is necessary to examine the way in which each composite is constructed. The composites have been given names reflecting the authors interpretations of the content. It will be noted (a) that items in a composite are not equally weighted, (b) that although an item was assigned to a particular group of items, it may carry a zero weight in constructing the provided that composites for elementary and high schools may

reflect different patterns of weights.

To facilitate interpretations of relationships it may be useful to place measures of school conditions into superordinate categories. The following general description of process variables is intended to facilitate an overview of the entire range of school conditions.

Teacher Measures

Twenty-three composites of teacher responses were constructed at the elementary school level; twenty composites were constructed at the high school level. The composites include teachers' responses to items having to do with (a) the teachers' self-descriptions, (b) teachers' descriptions of the social climate of the school, (c) teachers' reports concerning the climate for desegregation in the school, (d) teachers' evaluations of school conditions, and (e) descriptions of teaching practices.

Teacher characteristics. These variables are based on teachers' descriptions of themselves. Aggregated to the school level, they provide summary measures of responses for the teachers in the sample. Thus schools vary according to averaged teacher characteristics. In both the high school and elementary school samples, the following composites of teacher self-descriptions were formed: Teachers' racial attitudes (T-1) is defined by statements of personal racial attitudes. Teacher job attitudes (T-4) refers to statements about the difficulty of the job and about feelings of competence. Perceived racial differences (T-11) is a composite measure reflecting the degree to which black and white students are perceived to differ on 24 different attributes. Teacher training (T-14) refers to the amount and quality of training





that teachers reported receiving. (Note that quality of training is more strongly weighted in this composite at the high school than at the elementary school level.)

Social climate of the school. Several questions in the questionnaires asked for descriptions of social interactions in the school. The response categories were (a) open, warm (often interact), (b) friendly, (c) polite, (d) distant, cool (seldom interact), and (e) hostile. In fact, the "hostile" response category was rarely used. Variation in these items seems to describe social relationships ranging from close and personal to distant and formal (rather than hostile). These interpersonal relations items were grouped into those referring to interpersonal relations with students three composites: and their parents (T-5); those referring to interpersonal relations among teachers (T-6); and those referring to the interpersonal relations of the principal (T-7). Two other composites that reflect social climate have to do with how influence is distributed. School autonomy (T-8) measures the relative influence of teachers and students as opposed to external forces (superintendents Teacher autonomy (T-9) reflects the amount of choice and and school boards). influence that teachers perceive themselves to have.

Climate for desegregation. These composites reflect facets of social climate that are specifically related to racial desegregation. Support for integration (T-2) describes how teachers perceive how well school participants like desegregation. Absence of tension includes items describing general tension, but is most closely defined by lack of racial tension and problem-free integration. The description of the desegregation process (T-12) describes the degree to which desegregation is characterized by greater learning, reduced prejudice and improvement in education.

The composite entitled inequality of black and white participants was based on a number of items that asked for estimates of characteristics of various persons in the school (students, parents, teachers). Characteristics included influence in the school, support for desegregation, friendliness, and discipline problems. The indicators in this composite were formed by taking the absolute difference in scale values assigned to black and white participants for the several items. The variables that carry major weight in both the elementary and high school composites assess differences in influence between black and white teachers, students, and parents.

Evaluation of the school and school programs. These composites reflect evaluations of school programs and facilities as helpful to race relations. The items are grouped into evaluations of school services (T-17; e.g., guidance counselors, social workers), evaluations of human-relations programs (T-18), and evaluations of instructional programs (T-19). At the high school level there is a composite representing evaluation of the principal (T-15).*

Instructional methods. Several composites were formed for elementary schools to measure variation in teaching methods and classroom practices.

Teaching style (T-13 and T-23), varies from an emphasis on warning and scolding to an emphasis on praising and class discussion. Race-relations practices (T-16) are practices that specifically use race-related material and racial interaction in teaching. Extra time on task (T-20) refers to additional time spent on reading and mathematics by low-achieving students. Teacher vs. child-centered attitudes (T-21) measures variation in preference for orderly classrooms

^{*}This composite was not used at the elementary school level because the items did not yield an interpretable first principal component.



and regular routines as compared to busy, active classrooms and student sel. expression. Structure (T-22) refers to descriptions of schools as characteristically stressing strictness and control as compared to student movement and noise.

At the high school level, there are two composites relating to instructional methods. Multi-ethnic tear thigh school T-16) refers to specific use of multi-ethnic curriculum mate. , projects, and activities. Teaching style (T-20) is similar to the elementary school teacher composite (T-23).

Principal Measures

The composites of principal variables in many cases parallel teacher composites and may be described briefly. In addition to measures descriptive of personal characteristics of principals, social climate, climate for desegregation, and evaluation of school programs, a set of items in the principal's interview probed sources and severity of conflict in the school.

Personal characteristics of principals. Principals' racial attitudes

(P-1) were measured by the same questions asked of teachers. Principals' job

attitudes refer to worrying about work and potential effect of the principal.

Social climate. The principals' self-reported personal relationships with administrators, teachers, parents, and students--varying from warm and personal to distant and formal--are represented in the composite labeled principals' interpersonal relationships (P-10).

Climate for desegregation. Support for integration (P-2) contains similar questions to the comparable teacher composite. Inequality of black and white parent participation was formed by the methods described for defining teacher

composite (T-10). In this case, the content refers to the participation of black and white parents in school affairs.

Evaluation of school programs. Principals evaluated the adequacy of a variety of programs and services in their schools. For purposes of forming composites, the programs and services were grouped into race relations programs (P-14), instructional programs (P-15), human relations programs (P-16) and services (P-17). It will be noted that principals evaluated programs with regard to adequacy, while teachers evaluated them with regard to helpfulness for race relations.

Absence of conflict. A series of questions in the principals' interview dealt with the presence and seriousness of conflict among various persons (e.g., teachers and parents, administrators, and students) related to several issues (e.g., racial issues, discipline). The composites group together answers referring to particular persons according to the issues identified. The composites are absence of conflict regarding discipline (P-3), racial issues (P-4), ability grouping (P-5), and instructional change (P-6). Another group of items referred to the principals' personal conflict (P-7) between family and duties.

There are two additional principal composites. School socioeconomic status (P-8) is composed of principals' estimates of percentages of the school population with particular socioeconomic characteristics. Violent behavior (P-9) describes instances of fighting and criminal behavior.

Guidance Counselor Measures

Personal characteristics of guidance counselors reflected in composite measures include counselors' racial attitudes (C-1) and perceived racial



differences (C-4). Both are defined similarly to the related teacher measures. There are also guidance counselor composites paralleling teacher composites having to do with the social climate of the school (C-7, C-8, and C-9).

Guidance counselor evaluations of school programs include the following composites that parallel teacher composites: evaluation of race-relations programs (C-10), instructional programs (C-11), and human-relations programs (C-12), and services (C-13). In addition, guidance counselors provided evaluations of school facilities (C-5), including labs, facilities for vocational education, and facilities for extra curricular activities.

Two composites refer specifically to the work of counselors. Guidance counselor duties (C-3) measures emphasis on academic counseling vs. discipline and scheduling. Counseling practices (C-6) refers to the schools' approaches to counseling problems. Rules and discipline (C-2) reflects variation in strictness of enforcement of school rules.

Background Measures

Characteristics of the backgrounds of students, schools, and communities must be taken into account in any effort to identify school conditions and processes of effective desegregation. This section describes the background measures employed in subsequent analyses. Particular analyses vary with regard to the particular subset of background measures employed and with regard to the method of combining background variables into composites. Therefore, specific composites are described as they bear on the analysis being presented.

In most of the analyses of this study, background measures were used for



purposes of statistical control via partial correlation and regression techniques. There are instances, however, in which results having to do with background variables have important policy implications themselves. Suppose, for example, that the socioeconomic level of students affects school conditions as well as student outcomes. It is plausible that school conditions might be educationally poorer when students are economically poorer. To "correct" for student SES in interpreting associations between outcomes and school conditions is to subtract variance that might reveal beneficial changes in school conditions. A "low SES" school cannot, as a matter of policy, be excused for perpetuating school conditions that are negatively related to student outcomes on the grounds that "background" variables account for relationships among conditions and outcomes. In subsequent chapters, we call attention to several instances in which findings related to background measures have important implications for policy.

The background measures obtained in this study fall into four categories: the socioeconomic status of black and white students; the racial composition of the school; the degree to which the school district can be described as urban; and the geographical location of the schools.

Socioeconomic Status

As is characteristic of school surveys, it was not possible to obtain direct measures of the socioeconomic backgrounds of students. The measures derived from students' reports are proxies for an index of influential environmental factors.



The following items were used as indicators of the SES of elementary students.

Does the student own a bicycle?
Number of siblings.

Does the family have a telephone?

Does the family own a dictionary?

Does the family get a newspaper?

Does the family own its home?

Does the student live with both parents?

Was the student read to when little?

For high school students, there are indicators of:

Mother's education.

Mother's occupation.

Father's occupation.

Does the family get a newspaper?

Does the family own its home?

Does the student live with both parents?

The above measures were obtained from the individua students in the samples.

In addition, a school-level SES measure was derived from principal's reports of economic and occupational characteristics of the school's population (P-8). The specific items and composites are presented in Tables 2-7 and 2-8.

Racial Composition of the School

Racial composition was indexed by the percent of students in the school who are black, as reported by the principal. This variable has a obvious



bearing on interracial contact of students. It may also have an effect on other student outcomes and school conditions.

Urbanness of School Districts

Inis variable was the percent urban of the county or city in which the school is located, as reported in the 1970 U.S. Census. Since the census data refer to counties and cities, the variable describes a school's community rather than the school itself.

Geographical Location

A school's location was coded as "Southern" or "non-Southern." All of the Southern schools were members of the 1972 <u>Southern Schools</u> sample (NORC, 1973). The non-Southern schools were from Northeastern, Midwestern, and Western states.

Chapter 3

School Conditions and Outcomes in Elementary Schools

The results presented in this chapter are organized into two main topics: the relationships between student socioeconomic status and other variables and the associations between elementary school characteristics and student outcomes. The set of relationships between school characteristics and outcomes is the major focus of the study. Results involving student SES provide a necessary context for interpreting the remaining results, and themselves have policy implications.

It is often assumed that SES is associated with the attitudes and achievement of students. For this reason, it is treated as a "background variable"; its effect is statistically controlled in the analysis of school characteristics and outcomes. This approach was taken in the present study. However, it is instructive to examine how SES relates to other variables. SES may affect school characteristics as well as student outcomes. The policy implications of a set of results must take such relationships into account.

Student Socioeconomic Status

The results reported in this section describe relationships as they existed in the 76 elementary schools for which both race relations and achievement data are available. Of these 76 elementary schools, 48 were located in the South and 28 outside the South.

Measures of black and white student socioeconomic status were developed by taking the first principal component of the school means of SES items from the student questionnaire separately for black and white students.

Composition of the first principal component SE3 scales are presented in Table 3-1. Correlations between the black and white student SES scores and the student race relations and achievement outcomes are presented in Table 3-2.

SES and Student Outcomes

Students' SES appears to be unrelated to their perception of school racial attitude for both black and white students. White students' SES appears also to be unrelated to personal racial attitudes of both black and white students. Black students' SES, however, appears to be related significantly to both black and white students' personal racial attitudes:

The higher the black students' socioeconomic status, the better the personal racial attitudes of both the black students and the white students in the same schools.

Both black and white students' SES is significantly related to student achievement. The higher the black or white students' socioeconomic status, the higher their achievement scores. Also, the higher the SES of the students of one race, the better the academic achievement of the students of the opposite race.

SES and School Characteristics

Table 3-3 presents the zero-order correlations between the students'
SES scores and the school process variables described in Table 2-7 in
Chapter 2. Low socioeconomic status of black students is significantly
associated with a substantial number of school characteristics. The results
in Table 3-3 show that schools whose black students have low mean SES scores



Table 3-1

Fifth Grade

Composition of the First Principal Component SES Scales for Black and White Students

		, ,	Weig	ghts
I.D.		Description	Black	White
ES005		Own a bicycle	:44	.39
ES066	•	Number of siblings	.44	.36
ES026	÷	Cwn a telephone	.42	.39
ES027		Own a dictionary	.35	.41
ES032		Own home	.19	.34
ES053		Get newspaper	.40	.33
ES020	1 · · · · · · · · · · · · · · · · · · ·	Live with both parents	. 29	.30
ES031		Read to when little	.20	.30
			3	

Table 3-2

Fifth Grade

Zero-Order Correlations between the First Principal Components of the Student SES scores and the Student Race-Relations and Achievement Outcomes

Principal	Component	SES	Scores	

·			•
e		Black	White
Perceived school racial attitude	Black White	.01 09	.12
Personal racial attitude	Black White	.27* .38**	.00 .04
Achievement	Black White	.61** .43**	.32** .73**

a1974 Data

a 1974 Data 76 Table 3-3

Fifth Grade

Zero-Order Correlations between the First Principal Components of the Student SES scores and the School Process Variables

Principal Component SES Scores

	·		
	Teacher Variables	Black	White .
1.	Teachers' racial attitude	.37**	.08-
2.	Support for integration	28*	 08
3.	Absence of tension	10	.04
4.	Teachers' job attitude	18	21
5.	interpersonal relations with students	.40**	.32**
ნ.	Interpersonal relations among teachers	.08	.15
7.	Interpersonal relations of principal	20	02
8,	School autonomy	.23*	.05
9.	Teacher autonomy	.14	.07
10.	Inequality	07	.09
11.	Perceived racial differences	26*	.05
12.	Desegregation process	.00	.05
13.	Teaching style (1)	30**	14
14.	Teacher training	.07	/01
15.	Achievement evaluation	.51**	. 36**
16.	Race-relations practices	47**	15
17.	Evaluation of services	.07	.11
18.	Evaluation of human-relations programs	.06	, 00
19.	Evaluation of instructional programs	.27*	.10
20.	Extra time on task	.06	02
21.	Teacher vs. child-centered attitudes	27*	-, 23*
22.	Structure	. 20	.10
23.	Teaching style (2)	.04	01
	Student Variables		14
1.	Racial contact practices (Black)	36**	16
2.	Racial contact practices (White)	~ 31**	- 04

^a1974 Data

p < .05 **p < .0

96

77
Table 3-3 (Continued)

Fifth Grade

Principal Component SES Scores

	Principal Variables	Black	White
1.	Principal's racial attitude	.13	.04
2.	Support for integration	09	.03
3.	Absence of conflict: discipline	- .15	.20
4.	Absence of conflict: racial issues	07	.04
5.	Absence of conflict: ability grouping	14	06
6.	Absence of conflict: instructional change	07	.06
7.	Absence of Principal's personal conflict	36**	18
8.	School SES	60**	64**
9.	Violent behavior .	.00	09
10.	Principal's interpersonal relations	13	°. °01
11.	Inequality	.20	.33**/
13.	Principal's job attitude	.28*	.14
14.	Evaluation of race-relations programs	10	.08
15.	Evaluation of instructional programs	05	01
16.	Evaluation of human-relations programs	19	22*
17·.	Evaluation of services	01	.01
	·		

^a1974 Data

^{*}p < .05 **p < .01

tend to have the following characteristics:

- (a) Negative teacher racial attitudes (T-1)
- (b) Absence of teaching practices related to race relations, including lack of class projects and discussions of race (T-16) as reported by teachers, and few practices designed to promote racial interactions, as reported by both black and white students (S-1 and S-2).
- (c) Perception by teacher of differences between black and white students (T-11).
- (d) A teaching style characterized by warning and scolding (T-13) and attitudes that are more teacher-centered than child-centered (T-21).
- (e) Lack of support for integration, as described by teachers (T-2).
- (f) Formal relations between teachers, the students, and their families (T-5).
- (g) Low school autonomy relative to outside influence (T-8).
- (h) Low evaluation of achievement in the school by teachers (T-15).
- (i) Evaluation of certain teaching programs as helpful to race relations (T-19). These programs include achievement grouping classes for underachievers, teacher training, and classes for the maladjusted.
- (j) Principal's report of conflict between the principal and principal's family about the demands of the job (P-7) and an unworried job attitude on the part of the principal (P-13).

Low SES scores for white students are significantly correlated with formal relationships between teachers and the students and their families (T-5), poor teacher evaluation of achievement (T-15), more teacher-centered than child-centered attitudes (T-21), poor school SES as reported by the principal (P-8), less inequality regarding black and white parents reported by the principal (P-11), and the poor evaluation by the principal of human relations programs (P-16).

The SES measures for both black and white students in the sample correlate with the overall school SES measures based on principals' reports (P-8).

Implications of SES Results

Some school characteristics seem to be related to student SES without regard to race. They include evaluation by teachers of school achievement, formal interpersonal relationships between teachers and students and their families, and teacher-centered racher than child-centered teacher attitudes. In low SES schools the emphasis is on regular routine, sitting still and paying attention, the importance of textbooks, and quiet orderly classrooms.

The substantial number of school characteristics which correlate with black student SES and for which there are no white student SES counterparts is disturbing. Low SES black students in elementary schools appear by these data to be in double jeopardy. Not only are racial attitudes poorer in schools with low SES black students, but the practices which might help to change those attitudes exist to a lesser degree. Such schools have fewer class discussions of race, fewer race-related projects, and fewer multi-ethnic texts. The students themselves report less racial mixing in play and work assignments.

These results are undoubtedly related to other background characteristics, such as racial composition of the schools and demographic characteristics of the communities. But as they stand they have two implications that must be considered in relation to policy. First, many of the school characteristics related to low black student SES--particularly those descriptive of teaching practices—are changeable. Evidence to be presented

later indicates that they are also associated with student-measured race relations. Whatever the results in terms of student attitudes, it would appear that there is a pattern of school characteristics that discriminate against poor black students and that are subject to correction.

The second implication pertains to the practice of correcting statistical relationships between school characteristics and student achievement and attitudes to account for the relevance of background variables—as is done in the analyses presented later in this report. The variance subtracted in such a correction procedure includes variance that background variables share with school characteristics, as well as the variance that they share with outcome. When school practices vary with background variables, statistical corrections may obscure relationships that suggest approaches to corrective action. Therefore, caution in interpreting partial correlations, as compared with zero-order correlations, is necessary.

School Characteristics and Student Outcomes

This section of Chapter 3 focuses on the relationships between school characteristics and students' race-relations and achievement outcomes. An attempt will be made to identify practices which may be used to enhance students' attitudes and achievements and increase the effectiveness of integrated schools. The relationships between school characteristics variables and student outcomes are presented from three perspectives.

Zero-Order Correlations

To describe field conditions, zero-order correlations are presented in Table 3-4. Zero-order correlations between school characteristics and student outcomes provide information about relationships as they exist in elementary schools



Table 3-4

Fifth Grade

Zero-Order Correlations between School Process Variables and Student Race Relations and Achievement Outcomes

· · ·		Perceived School Racial Attitude		Students' Personal Racial Attitudes		Student Achievement	
	Teacher Variables	Black	White	Black.	White	Black	White
1.	Teachers' racial attitude	.21	.27*	.17	.53**	.19	.13
2.	Support for integration	29**	27*	26*	41*#	21	12
3.	Absence of tension	.27*	.16	~.03	·12	.09	.12
4.	Teachers' job attitude , .	.20	14	.20	06	04	02
5.	Interpersonal relations with students	.09	.33**	.16	.39**	.08	.22*
6.	Interpersonal relations among teachers	.05	06	~.26*	.13	22*	13
7.	Interpersonal relations of principal	23*	.06	22*	22*	24*	12
8.	School autonomy	16	.23*	.16	.19	02	05
9	Teacher autonomy	12	22*	.09	.08	07	.15
10.	Inequality	09	06	.00	19	08	.12
11.	Perceived racial differences	09	13	17	36**	19	.08
12.	Desegregation process	25*	22*	.03	04	03	.13
13.	Teaching style (1)	19	23*	22*	43**	28*	21
14:	Teacher training	.25*	.19	.09	.19	.14	.07
15	Achievement evaluation	.15	.18	. 36**	.37**	.43**	.41**
16.	Race relations practices	11	27*	~.45**	60**	32**	19
17.	Evaluation of services	11	.15	~.02	.25*	01	.10
18.	Evaluation of human-relations programs	14	17	~.05	09	.07	03
19.	Evaluation of instructional programs	13	11	.23*′	.27*	.26*	.14
20.	Extra time on task	.18	.10	13	.05	.26*	.10
21.	Teacher vs. child-centered attitudes	10	20	.02	27*	20	25*
22.	Structure	17	10	.07	.16	.18	.08
23.	Teaching style (2)	19	.02	.04	.01	 05	.05_
					, .		
	Student Variables				,		
1,.	Racial contact practices (Black)	20	10	~.25*	- _{•\} 31**	41**	31**
2.	Racial contact practices (White)	7.04	02	37**	\31** 38**	40**	23*
,	•	ř,			. "	,	

p < .05 **p < .01

a₁₉₇₄ Data

-Table 3-4 (Continued)

Fifth Grade Perceived

			Perceived School Racial <u>Attitude</u>		Students Personal Racial Attitudes		Student Achievement	
	Principal Variables	Black	White	Black	<u>White</u>	Black	White	
1.	Principal's racial attitude	.03	.20	.15	.31**	.13	.06	
2.	Support for integration	.00	11	09	17	.00	.03	
·. 3•	Absence of conflict: discipline	.10	.27*	10	19	10	.16	
4.	Absence of conflict: racial issues	.07	.14	.00	.06	08	.06	
5.	Absence of conflict: ability grouping	11	01	05	15	20	11	
6.	Absence of conflict: instructional change	02	.07	06	11	07	.07	
7.	Absence of principal's personal conflict	04	.13	04	16	14	05	
8.	School SES	11	10 .	14	31**	54**	64**	
9.	Violent behavior	12	20	,06	·01	08,	20	
10.	Principal's interpersonal relations	26*	.10	13	0,4	30**	12	
11.	· ·	15	19	28*	14	12	.18	
13.	Principal's job attitude	.24*	.03	.03	03	01	.03	
14.	Evaluation of race-relations programs	.26*	.05	03	09	.15	.07	
1.5%	Evaluation of instructional programs	06	08	.03	01	.00	03	
16.	Evaluation of human-relations programs	.00	06	.00	18	 08	28*	
17.	Evaluation of services	.09	.00	.12	07	13	 09	

a₁₉₇₄ Data

^{*}p < .05 **p < .01

and raise questions to be answered in further analyses. There are 60 significant zero-order correlations, but the pattern of the associations is diverse. Some school characteristics appear to be associated more with one racial group than another. Warm interpersonal relationships between teachers and the students and their families (T-5) and childcentered attitudes on the part of the teacher (T-21) are related to white students' outcomes but not black students' outcomes. More formal relationships between the principal and others in the school (P-10 and T-7) and more formal relationships among teachers (T-6) are related more to black students' outcomes than white students' outcomes. Some few variables seem so consistent across outcomes for both black and white students that particular attention in further analyses seems warranted. Support for integration (T-2), teaching style (T-13), achievement orientation (T-15), race-relations practices (T-16), and racial-contact practices (S-1 and S-2) merit special attention.

A table of correlations between school characteristics and outcomes computed for 1975 data is presented in Appendix D. Comparison of that data with Table 3-4 reveals some differences in specific relationships, but an overall pattern that is similar. In particular, relationships involving the following school characteristics are related to race-relations outcomes in 1975 as well as in 1974: support for integration (T-2), teaching style (T-13), race-relations practices (T-16), and racial-contact practices reported by white students (S-2). The latter is significantly correlated with the racial attitudes of both black and white students in 1974, but only with those of white students in 1975. The teachers' achievement evaluation (T-15) was not measured in 1975.

An attempt to perform a partial correlation analysis on 1975 data parallel to the one reported in the next section was not successful. The apparent reason was that for the smaller number of schools tested in 1975, variance among measures of background, school characteristics, and outcomes was shared to such an extent that residuals contained very high proportions of error variance. No interpretable statistical results could be obtained from this analysis.

Zero-order correlations between school characteristics and student outcomes are confounded by the presence in both sets of variables of variance due to antecedent conditions. A set of background variables was identified and used in a regression procedure to remove variance due to black students' SES, white students' SES, the percent of black students in the school, a measure of urbanness of the school district, and its location in the South or outside the South. The SES measures were based on a canonical correlation analysis to maximize the similarity of the scale to the SES scales used in the 1972 Southern Schools study. Use of these variables permitted cross-year analyses. Relative weights of each of the SES items are given in Table 3-5.

Zero-order correlations between the five background variables used for partialing and the student outcome measures are given in Table 3-6. Zero-order correlations between the background variables and the school process variables are given in Table 3-7. These tables summarize the background relationships existing in the 76 elementary schools for which both race relations and achievement data were available.



Table-3-5

Fifth Grade

Composition of the Socioeconomic Status Scales for Black and White Students

· -	;	Weights	
I.D.	Description	Black	White
ES005 :	Own a bicycle	55	47
ES066	Number of siblings '	.02	02
ES026	Own a telephone	.00	. 48
ES027	Own a dictionary	€.12	~.09
ES032	Own home	.08	18
ES053	Get newspaper	04	~.5 ² 3
ES020	Live with both parents	.24	~.36
ES031	Read to when little	08	10.

^a1974 Data

Table 3-6

Fifth Grade

Zero-Order Correlations between Background Variables Used for Partialing and Student Race-Relations and Achievement Outcomes

3		,	Back	Background Variables				
		Black SES	White SES	Percent Black	Percent Urban	North/ South		
Perceived school racial attitude	Black White	21 16	.13 .12	.21 .17	25* 14	.06 14		
Personal racial attitude	Black White	.00	08 03	06 06	.15 .22*	~.23* [*] ~.55**		
Achievement	Black White	.30** .12	.33** .60**	16 10	.10 .18	31** 16		

**p < .01 a1974 Data < .05

Table 3-7
Fifth Grade

Zero-Order Correlations between Background Variables
Used for Partialing and School Process Variables

` /		• •	Backgr	ound Varia	bles	
	Teacher Variables	Black SES	White SES	Percent . Elack	Percent Urban	North/
1.	Teachers' racial attitude	.18-	.02	03	.36**	<u>~</u> .68**
2.	Support for integration	03	.02	.04	11	.53**
3.	Absence of tension	13	.12	~.13	19	.11
4.	Teachers' job attitude	13	19	.16 -	18	.19
′ 5.	Interpersonal relations with students	.24*	.26*	~.09	.35**	41**
6.	Interpersonal relations among teachers	.18	.08	~.10	.10	20
7.	Interpersonal relations of principal	04	~, 03	.07	13	.31**
8.	School autonomy	. 35**	01	11	.30**	47**
9.	Teacher autonomy	.14	06	13	.21	~. 35**
10.	Inequality ·	13	.14	.13	10	.31**
11.	Perceived racial differences	18 `	.14	.22*	29**.	.70**`
12.	Desegregation process	.11	06	14	.13	.07
13.	Teaching'style (1)	09	08	.12	 09	.45**
14.	Teacher training ,	10	.02	01	05	21
15.	Achievement orientation	.18	.29**	36**	.39**	65**
16.	Race-relations practices	20	08	.07	39**	.65**
17.	Evaluation of services	.09	.09	29*	.10.	12
18.	Evaluation of human-relations programs	.19	.08	.00	.01	.12
19.	Evaluation of instructional programs	.23*	ີ.ດວ	34**	.34**	37*×
20.	Extra time on task	10	09	.11	11	.07
21.	Teacher vs. child-centered attitudes	22*	09	.19	04	.21
22.	Structure	.27*	05	18	.19	25*
23.	Teaching style (2)	.06	.05	.17	.14	.01
		•		r s	•	
	Student Variables			ā		
1.	Racial-contact practices (Black)	~. 25*	15	05	08	.12
	Racial-contact practices (White)		10	-,31**	01	.11
•		,	• .			

*p < .05 *p < .01

^a1974 Data

106



87

Table 3-7 (Continued) Fifth Grade

Background Variables

•	trop.	•	·			
	Principal Variables	Black SES	White SES	Percent Black	Percent Urban	North/ South
1.	Principal's racial attitude	.10	06	.06	.02	38**
2.	Support for integration	02	. 07	09	04	.36**
3.6	Absence of conflict: discipline	25*	.26*	.23*	08	27*
منه 4.۰	Absence of conflict: racial issues	~.11	.03	. 20	01	.12
5.	Absence of conflict: ability grouping	06	02	.01	.16	.09
6.	Absence of conflict: instructional change	~.19	.13 🐪	.18	05	.18
7.	Absence of Principal's personal conflict	~.26*	08	.19	15	.22*
8.	School SES	~.38**	56**	.49**	31**	·. 39**
9.	Violent behavior	~.03	04	10	·24*	-, 11
10.	Principal's interpersonal relations	12	01 ·	01	.13	08
11.	Inequality	.14	.25*	.03	.06	.11
13.	Principal's job attitude	.28*	÷ .00	24*	.09	14
14.	Evaluation of race-relations programs	~. 05 [°]	.17	.02	27* 5	.15
15.	Evaluation of instructional programs	.02 ´	06	04	.15	-: 03 °
16.	Evaluation of human-relations programs	03	 19	08	24*, °	.15
	Evaluation of services	14	.01 .	.06	01	.15
	the contract of the contract o				`,	

p < .05 p < .01

^a1974 Data

Two issues are raised by these data. First, the pattern of differences between correlations involving the SES scores used for partialing (Tables 3-6 and 3-7) and the first principal component SES scores reported earlier. (Tables 3-2 and 3-3) would seem to indicate that the SES measures based on canonicals—especially the black SES measure—lost a good deal in the translation. The question of whether enough SES background variance was removed using the canonical variates led to a supplementary analysis to achieve greater correction for student SES. That analysis appears later in this chapter.

Second, the large number of significant correlations between schools'
North/South location and the school process variables appears to show the
schools outside the South superior to the Southern schools. A word of
caution in that interpretation is in order. The Southern sample of schools
was selected differently from the Northern sample and consisted of schools
which, for the most part, had been desegregated by court order a few years
earlier. Most of the Northern schools, on the other hand, had a history
of voluntary integration. Also, the rate of refusal to participate in the
present study was very low for Southern elementary schools and quite high
for Northern. The differential refusal rates cloud the pattern of correlations.

Removing variance due to background represents an attempt to determine how school characteristics are related to student outcomes independent of antecedent conditions. To answer that question and report school effects is the main goal of this chapter.

School Effects

Partial correlations between school process variables and student racerelations variables and student race-relations and achievement outcomes are presented in Table 3-8. Variance due to black SES, white SES, percent black, percent urban, and school location has been removed. The partial correlations represent school effects independent of background. If effectiveness of integrand measured by student racial attitudes and achievement, effectiveness of any schools appear to have the wing characteristics:

- (1) Multi-ethnic teaching practices are reported by teachers, black students, and white students.
- (2) Interpersonal relationships among teachers are described as friendly rather than warm and open.
- (3) Teachers give a positive evaluation of achievement.

One set of school characteristics is notable for <u>lack</u> of association with student outcomes. These characteristics are evaluations of school programs—human-relations programs, race—relations programs, instructional programs and school services—as evaluated by teachers and principals.

Multi-ethnic teaching practices: Both racial contact practices as reported by black and white students (S-1 and S-2) and race-relations practices as reported by the teachers (T-16) consistently relate to good student outcomes. These variables consist of groups of items describing conditions over which the school has considerable control. The teacher variable (T-16) consists of five items including projects on intergroup problems, class discussion on race, teacher experience with students of a difference race, multi-ethnic texts, and a demand for ethnic studies. (See Table B-1 in Appendix B for a more detailed look at the loadings of the items and the correlations of items with outcomes.) The racial-contact practices reported by students include studying about black people, being

Table 3-8 Fifth Grade

Partial Correlations between School Process Variables and Student Race-Relations and Achievement Outcomes

		Perce Scho Raci	ool	Studer Perso Raci <u>Atti</u> t	nal al	Stud <u>Achlev</u>	
.*	Teacher Variables	Black	White	Black	White.	Black_	White
1.	Teachers' racial attitude	.33**	.19	•00	.21	04	05
2."	Support for integration °	32**	14	16	14	09	- 07
3.	Absence of tension	.25*	.16	.01	03	.14	.14
4.	Teachers' job attitude	.20	15	.25*	.04	.10	.18
	Interpersonal relations with students	.14	.35**	.10	.22*	21	05
6.	Interpersonal relations among teachers	.08	.06	31**	.03	39**	29**
7.	Interpersonal relations of principal	25*	.16	15	06	17	06
8.	School autonomy	12	.26*	.07	12	29**	23*
9.	Teacher autonomy	08	.23*	.01	14	21	.17
10.	Inequality	14	 05	.08	02	02	.12
11.	Perceived racial differences	19	04	.01	.06	04	.21
12:	Desegregation process	1 7	12	.05	.03	.01	.24*
13.	Teaching style (1)	19	- .1 2	14	24*	1 5	14
14.	Teacher training	.21	.09	.04	09	.10	.05
15.	Achievement evaluation	.26*	.11	.33**	.06	.25*	23*
16.	Race-relations practices	18	21	43**	.37**	1 5	.00
17.	Evaluation of services	06	.22*	04	.30**	08	.06
18.	Evaluation of human-relations programs	11	12	.00	03	.05	09
19.	Evaluation of instructional programs	03	10	.17	.1 5	· ´.17	.07
20.	Extra time on task	.13	.05	11	.09	.31**	.08
21.	Teacher vs. child-centered attitudes	14	22*	.04	21	08	23*
22.	Structure	10	07	.02	.03	.10	.08
23.	Teaching style (2)	16	.05	.02	08	1 3	07
			<i>o</i> .			<u>.</u> .	•
,	Student Variables						
1.	Racial-contact practices (Black)	23*	09	28*	28*	33**	25*
2.	Racial-contact practices (White)	.03	.09	43**	34**	38**	17
	*p < .05	N = 70	schools			· · · · · · · · ·	

Table 3-8 (continued) Fifth Grade a Perceived

		Scl Rad	ceived nool cial Ltude	Stude Perso Raci <u>Atti</u> t	onal	Stud <u>Achle</u> v	
	Principal Variables	Black	White	Black	White	Black	White
1.	Principal's racial attitude	03	.09	.07	. 09	.02	.04
2.	Support for integration	.07	.03	.01	. 09	.13	.09
_3	Absence of conflict: discipline	00	.26*	05	08	09	.05
4.	Absence of conf racial issues	.04	.13	.01	.12	 05	.06
5.	Absence of nilic lity grouping	07	.06	05	12	16	14
6.	Absence of co .nstructional change	-,10	.03	03	04	04	.02
7.	Absence of Principal's personal conflict	11	.13	01	07 °	02	.05
8.	School SES	27*	15	18	28*	37**	48**
9:	Violent behavior	07	20		08	08	28*
10.	Principal's interpersonal relations	30**	.09	18	11	34**	20
11.	Inequality of parent contacts	16	19	26*	11	.05	.05
13.	Principal's job attitude	.37**	.11	.02	10 "	12	.02
14.	Evaluation of race-relations programs	.21	.01	. 04	.00	.15	.01
15.	Evaluation of instructional programs	01	04	.01	 03	.03	.00
16.	Evaluation of human-relations programs	.02	.00	.04	09	.02	15
17.	Evaluation of services	.09	.02	.15	.02	07	10

^{*}p < .05 **p < .01

^a1974 Data

N = 76 Schools

assigned to play on a team with students of a different race, and being assigned to work with a student of another race. Schools with good race-relations practices or racial-contact practices appear to be very open to the subject of race: to a multi-ethnic curriculum, to discussion and projects on race, and to affirmative assignments on the playground and in the class-room. The outcome from such practices appears to be good personal racial attitudes are part of all students and better achievement for black

Interpersonal relations among teachers. Interpersonal relationships described as friendly rather than warm and open appear to characterize * effective elementary schools. The interpersonal-relations scale has a range of 1 to 9:

- (1) hostile
- (3) distant, cool (seldom disteract)
- (5) polite
- (7) friendly
- (9) open, warm (often inter

Ch that scale the means across schools of the three items indicating interpersonal relations among teachers, (T-6), are 7.69 (you and black teachers), 7.68 (you and white teachers) and 7.22 (black teachers and white teachers). Standard deviations are .67, .57, and .74 respectively. Negative correlations between interpersonal-relations variables and student outcomes do not mean that bad relations are associated with good outcomes. Rather, it means that formal relationships are predictive of good student outcomes. More a pusiness-like concern with students' academic progress.

Several other relationships in Table 3-8 tend to support the concept of a more formal climate. More formal relationships between the principal and school personnel (T-7 and P-10) have significant correlations with student outcomes. Most of those are with black student outcomes although white student achievement is also related. Only with regard to teacher relationships with students and their families (T-5) does the direction of significant correlations change. Warm, open relationships are associated with white students' personal racial attitudes and perceived school racial attitudes. A look at the items which make up the variable T-5 indicates, however, that certain more formal relationships are associated with black and white student achievement. (See Table B-1 in Appendix B.) Confirmation coils relationship occurs in an analysis reported later in the chapter.

Activement evaluation. Achievement evaluation is composed of a group of means items including student willingness to try to learn, the evaluation of the performance of black and white students, and the evaluation of achievement grouping practices. Elementary schools where the students try to learn, where teachers report many of their black and white students at grade livel, and where teachers believe achievement grouping is not helpful to make relations appear to contain both black and white achievers and, in addition, black students whose perceived and personal racial attitudes are better.

The zero-order correlations between achievement evaluation and student outcomes are strong and consistent for black and white students. One might have experted that the relationship between achievement and its evaluation

would disappear in the partialing process since the background variables which so often account for one might also account for the other. The partial correlations remain significant with black and white student achievement although the magnitude of the relationship is lessened considerably. What is interesting, however, is that the partial correlations show that achievement evaluation is related to black student race-relations outcomes. Black students' racial attitudes apparently are related to the teachers' perception of student achievement. The correlations between achievement evaluation and race-relations outcomes, together with the correlations reported in Chapter 2 between black student achievement and the personal racial attitudes of both black and white students, would seem to indicate the importance to integration of continued emphasis on student achievement. An easily implemented practice is to give slower students extra time on reading and math (T-20). The data suggest that such a practice might improve black students' achievement.

Programs. The data on program evaluation were disappointing. Of the 42 possible correlations between program variables (T-17, T-18, T-19, P-14, P-15, P-16, and P-17) and student outcomes, only two reached the .05 level of significance—a result which could have occurred by chance. Additional program results are given in Table C-1 in Appendix C.

"Program" was a difficult word to interpret for all school personnel.

It was especially difficult in elementary schools where the staffs are smaller, the students younger, and the administrative organization simpler than in high schools.

It appeared from interviews with principals and teachers that such "programs" as intergroup-relations programs and parent-teacher contact programs seldom exist as formally defined activities in elementary schools. The activities are more likely to take place as part of ongoing school tasks, and therefore are not identified by staff members in a consistent way as programs. The absence of identifiable effects of these programs may reflect both inability to measure variance in such programs, and ack tation of such variance with student outcome.

Other school characteristics. School and teacher autonomy (T-8 and T-9) contain significant (or close to significant) sign reversals for black and white outcomes. School autonomy (T-8) is associated positively with white students' perception of school racial attitudes and negatively with black and white achievement. Relatively more influence in the elementary school of the school board and/or the superintendent of schools is associated with student achievement. Teacher autonomy (T-9) is associated positively with white students' perception of racial attitudes. An interesting finding among the items within the teacher autonomy variable shows the teachers' choice of textbook as positively (but not significantly) related to white achievement and significantly negatively related to black achievement. Oblack achievement is also negatively associated with the teachers' influence in the school and the teachers' freedom to choose the kinds of students to teach. (See Table B-1 in Appendix B.)

When the direction of a relationship changes with the race of the students, an ambiguous situation exists. School and teacher autonomy (T-8 and T-9) and teachers' warm and open relationships with students and their

families (T-5) present this problem. It is interesting to note that all three variables are associated with white students' perception of school racial attitudes. Perhaps the three variables represent a "status quo" position favored by those with traditional views of schooling.

Absence of tension (T-3) as reported by the teacher is associated with black students' perception of good school racial attitude. Major omponent of that association are the percentages of black and white discipline problems. (See Table B-1 in Appendix B.) Absence of conflict regarding discipline (P-3) is associated with white students' perceived school racial attitude. One component of variable P-3—absence of conflict between teachers and students over discipline—is also related to black students' perception. Absence of violent behavior (P-9) is associated with white students' achievement. In general, an absence of conflict or tension over discipline problems is characteristic of elementary schools with positive race relations and good achievement.

Teacher racial attitudes (T-1) and support for integration (T-2) are associated with student race-relations outcomes when zero-order correlations are examined. After partialing out background variables the relationships hold only for black students' perceived school racial attitude. Racial attitude (P-1) and support for integration (P-2) as reported by the principal are unrelated to student outcomes. However, inequality of parent contacts (P-11)--visits to school and attendance at school events--is associated with poorer personal racial attitudes of black students.

School SES relationships are clearly disturbing. Although variance associated with measures of black student SES and white student SES was removed, there remain substantial correlations with the SES of the schools as



assessed by the principal. The concern expressed earlier about the effectiveness of the SES measures is reinforced. A new analysis was made, in which the principal's estimate of the societ nomic status of the mailies of students in the school as added to the ground of the correlations produced. The partial correlations between school process variables and student outcomes with school SES removed along with the five background variables identified earlier are given in Table 3-9. Some correlations dropped below the significance level, some gained, but most findings remained about the same. The greatest changes occurred for the school's achievement orientation (T-15) and the child-centeredness of teachers (T-21), indicating their close relationship to SES.

Summary Measures

Since many school process variables related in different ways according to the race of respondents or outcome measured, a summary measure was constructed. The ideal outcome was believed to be good race relations and good achievement for both black students and white students. Measures were constructed by summing standardized scores for black and white perceived and personal race relations is the summary race-relations measure, summing standardized black and white achievement scores as the summary achievement measure and summing all six student outcomes as the overall effectiveness measure.

With equal weight given to black student and white student responses in summary measures, partial correlations with school process variables give an indication of which school characteristics are associated with good outcomes for both black and white students. Partial correlations between school process variables and the summary measures are presented in Table 3-10.

Table

$\mathbf{Fifth} \in$

Partial Correlations between School Process Variables a and Student Race-Relations and Achievement Outcomes with School SES Removed

ħų.		Sch	eived ool ial tude	Studer Perso Raci Attit	nal al	Stud Achiev	
	Teacher Variables	Black	White	Black	White	Black	White
1.	Teachers' racial attitude	.30**	.17	03	.17	12	17
2.	Support for integration	-,25*	09	11	05	.04	.11
3.	Absence of tension	.21	.14	02	08	.08	.07
4.	Teachers' job attitude	.20	-:15 · · ·	.25*	04	.10	.20
5.	Interpersonal relations with students	.12	. 34**-	.09	.20	~.26*	~.10
6.	Interpersonal relations among teachers	.11	.07	29**	.06	38**	28*
7.	Interpersonal relations of principal	20	·.20	12	.00	~.11	.04
8.	School autonomy	06	.31**	.11	 07 .	22*	14
9.	Teacher autonomy	06	.25*	.03 ,	i2	~.19	.25*
10.	Inequality	16	05	70ء	04	04	.11
. 11.	Perceived racial differences	22*	05	(1	• 04	07	. 20
12.	Desegregation process	20	∹.13	.03	.01	02	.23*
13.	Teaching style (1)	13	09	11	19	~.07	04
14.	Teacher training	.19	.08	.03	.06	.07	•ŏo
15.	Achievement evaluation	.20	.06	.29**		.16	.09
16.	Race-relations practices	13	18	41**	33**	08	.11
17.	Evaluation of services	09	.21	05	.29**	12	.02
18.	Evaluation of human-relations programs	11	12	.00	03	.06	 09
19.	Evaluation of instructional programs	04	10	.17	.15	.17	.07
20.	Extra time on task	.14	05	11	.10	.34**	.10
21.	Teacher vs. child-centered attitudes	08	-: 19 ˙	.10	15	.02	12
- 22.	Structure	12	08	.01	.01	.08	. 05
23.	Teaching style (2)	12	.08	.05	03	 07	.02
			• •		•		
	Student Variables					<i>.</i>	• .• • •
1.	Racial-contact practices (Black)	19	07	26*	25*	30**	19
2.	Racial-contact practices (White)	•05	•11	42**	34**	38**	16
	*p < .05 **p < .01	a 197	4 Data		•		

Table 3-9 (Continued)

Fifth Grade^a

		Sc Ra	ceived hool cial itude	Pers Rac		Stud <u>Achie</u> v	
	Principal Variables	Black	White	Black	White	Black	White
1.	Principal's racial attitude	07	.07	.05	. 05	04	03
2.	Support for integration	.03	.01	02	.06	.08	.02
3.	Absence of conflict: discipline	.00	.26*	 05,	08	10	.05
4.	Absence of conflict: racial issues	.07	.15	.03°	.16	01	.13
,	Absence of conflict: ability grouping	05	.07	04	09	14	11
	Absence of conflict: instructional change	06	.06	.00	.00	.02	.11
7.	Absence of Principal's personal conflict	13	.12	03	09	05	.02
8.	School SES	•					
9.	Violent behavior	05	18	.03	05	04	26*
10.	Principal's interpersonal relations	21	. 17	12	.02	22*	.02
11.	Inequality of parent contacts	21	21	29**	16	.01	02
13.	Principal's job attitude	.36**	.09	.01	14	17	03
	Evaluation of race-relations programs	.22*	.02	.04	.00	.17	. 02
15.	Evaluation of instructional programs	04	06	01	06	01	06
	Evaluation of human-relations programs	.02	.00	.05	09	.02	17
	Evaluation of services	.10	.02	.15	.02	07	11

a₁₉₇₄ Data

*p < .05 **p < .01

Variance due to black SES, white SES, percent black, percent urban, South or non-South location, and the school SES has been removed. Significant relationships exist between summary measures and the following variables:

- (1) Teachers' job attitude (T-4).
- (2) Formal interpersonal relationships among teachers and between teachers and students or their families (T-5 and T-6).
- (3) Less school autonomy (T-8).
- (4) Good evaluation of achievement (T-15)
- (5) Good race-relations practices (T-16).
- (6) Extra time on task for slower students (T-20).
- (7) Affirmative work and play assignments to promote racial contact (S-1 and S-2).
- (8) An absence of violent behavior (P-9).
- (9) More equality of parent contacts (P-12).

These findings reinforce those reported earlier separately by race. It is encouraging that so many variables appear which are able to be implemented fairly readily.

Practical Implications

The elementary school data indicate that the goals of good academic achievement and good race relations are compatible ones. Academic achievement of black students is correlated with favorable racial attitudes of black and white students. Teachers' evaluation of a school's achievement is correlated with good black student racial attitudes. Both of these sets of correlations are influenced, but not entirely explained, by background measures. There are school conditions that have positive effects on both achievement and race relations. There appears to be no need to sacrifice an emphasis on achievement in favor of an emphasis on race relations, or vice

Table 3-10 Fifth Grade

Partial Correlations between School Process Variables and Summary Measures of Race Relations, Achievement, and Overall Effectiveness

		Summary	Summary Achievement	Summary Effectiveness
•	the state of the s	Race Relations	ACIITEVEMENT	EFFECTIVENCOS
	Teacher Variables	-		N
1.	Teachers' racial attitude	.19	18	15
2.	Support for integration	-,19	.09	.07
· 3.	Absence of tension	.07	.09	.15
4.	Teachers' job attitude	.12	.18	.22*
5.	Interpersonal relations with students	.21	23*	04
6.	Interpersonal relations among teachers	08	42**	39**
7.	Interpersonal relations of principal	12	05	09
8.	School autonomy	.07	23*	10
9.	Teacher autonomy	02	.03	.11
10.	Inequality	04	.04	02
11.	Perceived racial differences	~.10 °	• 07	15
12.	Desegregation process	08	.13	.16
	Teaching style (1)	20	07	12
-14.	Teacher training	.14	.05	.05
15.	Achievement evaluation	.22*	.16	.22*
16.	Race-relations practices	36**	.01	15 ,
17.	Evaluation of services	.09	07	.10
18.	Evaluation of human-relations programs	09	01	. 07
19.	Evaluation of instructional programs	.12	.16	.21
20.	Extra time on task	.12	.29**	.23*
21.	Teacher vs. child-centered attitudes	07	06	08
22.	Structure	09	∕ • 09	.03
23.	Teaching style (2)	05	04	10
	Student Variables			ó.
1.	Racial-contact practices (Black) *	26*	30**	34**
2.	Racial-contact practices (White)	23*	·35**	32**
	*p < .05	a 1974 Data	,	

Table 3-10 (Continued)

Fifth Grade ^a

•		Summary Race Relations	Summary . Achievement	Summary Effectiveness
	Principal Variables	ø ••		
1.	Principal's racial attitude	.02	04	
2.	Support for integration	.03	.06	.02
3.	bsence of conflict: discipline	02	04	.06
4.	Absence of conflict: racial issues	.09	, Ø7	.18
5.	Absence of conflict: ability grouping	10	16	15
6.	Absence of conflict: instructional change	e05	•.08	.14
7.	Absence of Principal's personal conflict	11	02	.03
8.	School SES	"Commence of the second		•
.9.	Violent behavior	08	19	25*
10.	Principal's interpersonal relations	12	1,4	06
11.	Inequality	31**	.00	11
13.	Principal's job attitude	.12	– . 13	04
14.	Evaluation of race-relations programs	.12	.12	.20
15.	Evaluation of instructional programs	\ 05	05	07
16.	Evaluation of human-relations programs	.03	09	08
17.	Evaluation of services	° .° .16	12	13

^a1974 Data *p < .05

p < .05 **p < .

The school conditions with most obvious practical implications are those that have to do with teaching practices. Teaching methods that employ interracial curriculum materials, open discussion of racial topics, and assignment of black and white students to cooperative tasks appear to have positive effects on both achievement and race relations. These are curriculum variables. They reflect how schools choose curriculum material, how teachers structure instructional activities, and how schools organize projects. They are susceptible to change in the search for ways to improve schools. The results suggest that they are profitable approaches to improvement.

The other school condition that is most strongly associated with components of effective integration is a school climate in which interpersonal relationships among teachers are friendly but formal. These and other effective school conditions can be the basis for building a program of effective integrated schooling.

A fact deserving particular emphasis is the large number of school variables that are significantly correlated with the SES of black students. Many of these correlations suggest that schools with low SES black populations are also schools in which conditions for effective integration are poor. The search for conditions and practices of effective school desegregation ought to include identification of ways in which conditions in such schools can be improved.

Chapter 4

School Conditions and Outcomes in High Schools

This chapter focuses on conditions and practices associated with race relations and student achievement in high schools. Except as otherwise noted, the analyses reported in this chapter are of the 1974 data base.

Table 4-1 presents the basic set of results relating school characteristics to student outcomes. The entries in Table 4-1 are partial correlation coefficients. The variance associated with the following background
measures has been subtracted: black student SES measures, white student
SES measures, racial composition of the school, percent urban, and the location of the school (South or non-South). The corresponding zero-order correlations are presented in Table 4-2. Tables 4-3 and 4-4 present further
details regarding background variables. Table 4-3 describes the composites
of SES variables used in this analysis. Table 4-4 shows relationships of
each background variable to outcomes, and Table 4-5 shows relationships of
background variables to school characteristics.

School Characteristics and Student Outcomes

The question addressed by the results in Table 4-1 is this: To what degree are school characteristics related to student outcome variables, independently of background variables? Inspection of the columns of the table

shows that, in general, white student outcome measures are more highly associated with school characteristics than those of black students. A substantial number of school conditions are statistically related to white students' racial attitudes, their interracial contact, and their perceptions of predominant racial attitudes in the school. Black students' measures of these variables are less closely related to the observed school characteristics. Among the measures of outcome for black students, their perception of school fairness has the largest number of statistical relationships with school characteristics.

Achievement Scores

Table 4-1 also shows that achievement scores are not closely related to the high school characteristics observed in this study. These results contrast with those relating to elementary schools presented in Chapter 3. In the elementary school data, there are school characteristics that are systematically related to achievement scores of both black and white students, and, in general, consistent with race-relations results. This contrast between the results for elementary and high schools may to some extent reflect differences in the way the samples are constructed. The students measured in the sample of elementary schools represent most of the fifth graders in each school. The teacher samples include all fifth grade teachers and some fourth and third grade teachers.

Table 4-1

Tenth Grade

Partial Correlations between School Conditions and Student Race-Relations and Achievement Ourcomes: 1974 Data

	Perceived 5	1 School	Students! Persons.	Personal	Racial	Racial Contact	School Patruess	trness	Achtevement	ment
Teacher Variables	Black		Black	White	Black	White	Black	White	Black	White
l. Teachera' racial attitude	.02	. 23	01	.47**	01	4 6 6 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9	19	Ξ		-'05
2. Support for integration	11	36**	07	47**	07	47**	07		00.	.13
3. Absence of tension	. 29*	.43##	00.	.39**	01	. 36**	.15	·16	11	90.
4. Teachers' job attitude	09	50*	-,23	18	24	07	06	20	9.	37**
5. Interpersonal relations with students	.14	.31*	- 08	. 20	03	, 24	.41**	- 00	.03	30#
6. Interpersonal relations among teachers	- 00	.12	26*	. 21	90'-	.17	.14	.	00.	21
7. Interpersonal relations of principal	8.	60.	22	.03	24	14	41.	\$0.	07	-,16
	02	.02	13	.14	- 304	07	-70.	3.	90	.13
7 9. Teacher autonomy	.16	.80.	10	334₩	ç0 - 1	. 24	.19	80.	07	0 1
10. Inequality	14	11	.: R	18	11	1,1	444	.0.	io.	8n.
11. Perceived racial differences	.03	14	02	24	04	* * * * * * * * * * * * * * * * * * * *		\$0.7	.02	60.
12. Deaegregation process	11	43##	.09	414*	.14	±,36**	16	-, 3t.·	90.	12
13. Teaching style (1)	32*	42##	. 05	-, 35**	.02	, 294	91'-	9.	, 1 5	03
14. Teacher training	.10	.11	18	.19	27*	07	.27*	.05	13	.03
15. Evaluation of principal	07	27*	.02	36**	02	29*	31*	29*	.10	06
16. Multi-racial teaching	18	23	. 10	43##	.03	22	36AB	18	.02	12
17. Evaluation of achool services	05	31*	.02	-,48**	-,06	29*	37 **	3İ A	08	16
18. Evaluation of human relations prog.	90	22	10	34**	•00	27*	06	12	\$.05
19. Evaluation of instructional prog.	80.	18	,29*	11	.23	60*-	-, 18	. Q.	03	00.
20. Teaching style (2)	11	31*	.02	22	11	27*	16	73	.15	05
•										

* Significant at .05 level ** Significant at .01 level 1 N=60 achools Fahlte 4-1 (Car

Pench Gradb

Papited : rrelations between School Conditions and Student Race Relations and Achievement Outcomes: 1974 $\rm Dates^4$

	Percetued	School	Students' Persona	Personal	•					
	Racial Atti	titudes	Racial Attitudes	titudes	Racial Contact	Contact	School Fairness	Irness	Achlevement	Bent
Principal Variables	Black	White	Black	White	Black	White	Black	White	Black	
1. Principal's racial attitude	. 18	.33**	11	.38**	.03	.24	04	02	-, 334#	03
2. Support for integration	16	11	07	20	12	27*	. 12	.20	70.	.16
3. Absence of conflict: discipline	.20	.23	.01	.34**	.01	, 25 ⁴	**07	, 50**	.07	.284
4. Absence of conflict: racial issues	**87	.36**	71.	.39**	, so.	, 28*	.36**	.38**	÷0	•16
5. Absence of conflict: ability grouping	17	60.	02	. 25⁴	.19	.15	. 23	.55**	• 16	4475
6. Absence of conflict: instr. change	×30*	00.	, 18	.22	.11	*67.	.36**	,38**	.16	.33**
7 Absence of principal's personal conflict	90.	.01	30*	00.	.24	.19	**6€*	, 38**	7.	.07
San Source	.14	. 27*	. 21	.03	.21	03	,0,	***	15	- 174
9 Violent hehavior	90 -	22	70 .	18	13	17	13	.07	ÚL	.03
10 Drincingle internersonal relations	.07	.07	60.	.29*	90.	.05	08	15	07	.03
1) Inches (to	.03	10	07	.03	.15	, 23	.19	.17	.05	60.
11. including	02	01	21	12	15	10	03	-,17	.17	08
1). Realization of race relations DIOR.	.12	.02	.14	- 08	.24	09	01	.01	07	07
14. Evaluation of thetructional prog.	60.	15	.12	• 00	.16	.29*	04	00.	+0	90
16 Evaluation of human relations prog.	.11	10.	60	-,07	- 08	-, 05	-, 08	08	23	~.16
17. Evaluation of services	.37**	.28*	.29*	. 34**	.22	, 30*	÷:	90.	=1:1	.08
		4								

* Significant at .05 level

1 N=60 schools

Table 4-1 (Continued)

Tenth Grade

Partial Correlations between School Conditions and Student Race Relations and Achievement Outcomes: 1974 Data

	Perceived Racial At	d School	Students' Person Racial Attitudes	Students'-Personal Racial Attitudes	Racial	Racial Contact	School .	School Pairness	Achievement	ement
Cuidance Counselor Variables	Black		Black	White	Black	White	Black	White,	Black	White
1. Counselors' racial attitude	10	.18	90.1	.25	.07	.19	1.04	.04	90	.14
2. Rules and discipline	8	8.	10	.23	2	.22	.12	. 29∗	.11	01
3. Counselor duties	.07	3. ·	02	.05	13	1 <i>j</i>	i, 04.	25	11	16
4. Perceived racial differences	03	17	60.	31*	02	15	60.	00.	11	- 08
5. Evaluation of facilities	03	.17	01	.14	95	60	.21	.26	. 24	.08
6. Counseling practices	. 10	\$.	.00	. 20	06	· 02 ·	- 05	08	90	04
7. Interpersonal relations of principal	-, 03	14	.14	19	90.	90	8.	- 02	. 02	22
8. Interpersonal relations with teachers	07	.03	.20	05	.19	111	.12	.18	, 02	.,18
9. Interpersonal relations: parents, stud.	16	ક.	90.	02	01	٠0٠	00°	Ŧ.	10.	3
10. Evaluation of race relations prog.	19	24	27	31*	07	-	i i		÷.	
11. Evaluation of the prochoust prog-	-,17	05	00	99.	.0)	₽.	* 4 ***	¥0	11.	11.
12. Evaluation of human relations prof.	4.	35*	01	39**	15	42**	15	24	11	-:13
13. Evaluation of wervices	٠.01	.14	. 19	.18	.18	. 22	.17	02	.23	1 •

* Significant at .05 level

** Significant at .01 level

1 N=48 schools

Table 4-1

Fero-Order Correlations between School Process Conditions and Student Race-Relations and Achievement Outcomes: 1974 Datal

	Perceived School	4 School	Studenly' Phreonal	Personal				,		. • .
	Racial Attitudes	ttitudes	Racial Attitudes	titudes	Racial Contact	ontact	School Pairness	Trneso	Achlevezent	1110
Teacher Variables	Black	White	Black	White	Black	White	Black	White	Black	Wilte
	50.	09	00.	.53**	06	.73**	90.	ر.	i.	í
To teachers that the sections of the section of the secti	- 13	10	06	53**	02	62**	.10	(1)	٠٠،	ř
2. Absence of tendion	.23	.48 **	.00	.14	.03	04	07	.08	19	10.
5. Absence of tension 6. Teachers' fob attitude	17	.03	-,19	27*	15	24	12	70	04	-,78*
5. Interbettenal Felating With mendants .30	MLH . 30	.25 *	02	. . .	80°-	.23	.4240	-er 	(2)	1
6. Interpersonal relations among teach03	:h03	.10	-, 26*	.27*	07	.21	,16	92	60	BYS
7. Interpersonal relations of principal02	pal02	.13	25*	60.	21,	10	5 1.	71.	·.0·-	Ê
8 School autonogy	10.	04	13	.25*	31*	.12	.14	.11.	To ;-	.13
9. Teacher autonomy	11.	.12	-,15	.38**	04	.21	.19	.17	-, 04	. 03
O Treesiality	- 08	04	.03	20	16	17.	29*	00:	.03	.09
11. Perceived racial differences	8	.03	03	-, 28*	=,05	-, 39**	.02	10:	07	.10
12. Desegregation prohess	06	-, 29*	.08	35**	.11	-, 29*	12	23	.07	80°-
13. Teaching style (1)	20	-, 29*	90.	36**	.03	26*	19	20	80.	E 6
le. Teacher training	.10	03	14	.16	¥1.	.01	.24	O.	14	50.
15. Evaluation of principal	20.	~.27#	. 05	495	į 111 °	90	21	-, 7H°	-	60°-
16. Multi-racial teaching	06	.10	10	, 534*	¥	~,464.~	3 1 th		()	- 7
17. Evaluation of school services	11	. 26*	yo	. 3522	03	29	3544	23	02	6.6
18. Evaluation of human-relations prog.	800	08	16	28*	.08	31*	08	03	.02	90.
19. Evaluation of instructional prog.	.05	15	.22	00.	610	01	12	.05	01	3
20. Tencifing atyle (?)	.02	10%	90.	-, 20	13	10	13	29*	80.	14
* Significant at .05 level			7							

Significant at .05 level

Nato achools

Table 4-2 (Continued)

Fautil Grade

Zato Order Guifelations between School Pruchus Cultitions and Student Race | Rolling Constant Date | 1974 Data

	·	Percelvad Be	getter i	Students' Personal	Personal						
		Ractal At		Harial Attitudes	ttltudes	Kacial Contact	Contact	School Pa	Patripens	Achi evenent	ment
	Principal Variables	Hack.	White	Black	illali p	Black	소 : 함 :	"Jack	; =	H) 46k	
1.	 Principal's racial attitude 	.26#	.23	90	.42**	60	.3844	. 1	70.	100	č
2.	2. Support for integration	17	03	03	33**	07	41**	50.	.11	. (7: -	90.
3	Absence of conflict: discipline	.18	*52*	ą.	.19	00.	70.	.37**	,43**	80.	
4.	Absence of conflict: racial issues	** 55.	**15.	.11	.26*	. 60.	.07	.33**	.33**		. 10
5.	Absence of conflict: ability grouping	- 00	. 07	35.	.19	.10	77.	.28	.51**	.16	404
•	6. Absence of conflict: instruct. change	.24	01	.22	1.15	90.	.21	.34**	.32*	. 41	.31*
7.	Absence of principal's pers. conflict	80.	05	* 29 *	.02	.22	.22	.38**	,32*	: =	60
Β.	Delinol SES	.50**	.35**	.26*	11	10	03	.13	18	-, 30*	4467
6	Violent behavior	10	4124	01	.10	11	.26*	05	111.	2	· 6
.01	filncipal's interpersonal relations	04	01	.05	.36**	90.	.16	07	06	96	.12
.	Inequality	07	-, 05	19	60.	.21	.07	. 10	. 23	00	91.
ë	Principal's job attitude	03	- 70*-	19	07	12	.03	07	19	. 20	2
4.	Evaluation of race relations prog.	.08	.21	.10	23	. 23	40**	05	00	97	
5	Evaluation of instructional prog.	. 11	.05	.10	01	.12	80.	04	.01	=======================================	E
9	Evaluation of human-relations prog.	.10	.15	3.	60	04	19	-,10	-, 04	*90 -	5 -
	Evaluation of services	.324	.34**	.23	.25*	.25*	.12	. 18	.02	22	.03
	•										

Table 4 1 (Continued)

inth Grade

Zero Order Correlations between School Process Conditions and Student Race Relations and Achtermosty, Differment: 1974 Data 1

	· ·	Perceived s Racial Acti	u schiller!	St.dents' Person	St.dents' Personal	Racial Contact	Contact	School Fairness	airneag	Achievement	ent
	Guidance Counselor Variables	Black	White	Black	White	Black	Mille	Black	Willer.	Black	
-:	1. Counselors' racial attitude	.11	-, 04	05	.33*	.05	,40AA	- : 03	71)	.02	.07
2.	2. Rules and discipline	03	4 5 7	04	.11	.10	.01	.04	*4	* 0.	03
<u>.</u>	Counselor duties	.16	10	02	.17	17	.10	.05	19	10	18
4	4. Perceived racial differences	11	14	.03	29*	.05	- 21	.03	.01	10	90
5.	Evaluation of facilities	43	70.	13	.27	:13	.15	Ξ.	. 36**	. 154	3.4
9	Counseling practices	.14	03	69.	.25	711	. 14	.05	-,02	- 09	08
7.	Interpersonal relations of principal	.01	06	31.	~,22	.03	ſ3	jo.	10	02	20
΄, α		05	ıi.	.11	08	, 18	18	Ξ.	.18	02	16
6		07	.14	.11	90	04	04	707	90.	01	00
=		9.0	The second	т. н	22	21	10	04	20	70	78:
. 11	Evaluation of instructional prog.	-,12	12	ئن.	.05	10	.17	£,13	. 02	. 18	.13
12.	Evaluati Coult. Lactons program	02	. ja .	90.	34*	21	20	70	11.	13	19
13.	13. Evaluation of servires	10	te	.12	23	.20	.22	,14	.03	.25	.16

* Significant at .05 Level ** Significant at .01 level | N=48 schools

Therefore, the teachers measured are those with the greatest opportunity to influence the specific students in the sample. In the high school sample, students were drawn from English classes. These students share classrooms and teachers to a lesser extent train do the elementary students. There is also less likelihoom that a given student's own teachers are included.

There may be substantive as well as methodological reasons for the relative lack of relationship between high school achievement and school characteristics. High school student bodies are more heterogeneous than are those of elementary schools. Student achievement is a function of a longer learning history and provably of more extra-school factors. Whatever the reasons, the data give us little opportunity to explain high school student achievement as a function of school characteristics.

Race Relations

Table 4-1 can be described in several different ways. A study of the columns will show when school descriptors are related to each student-measured outcome. The rows will indicate the relative effect of each school variable. This section will amount a general rescription of variables associated with good race relations. Since there are multiple measures of race relations, the focus in this description is an school variables associated with more than one outcome measure. There are no school process variables that predict all outcome measures. There are some variables, inswever, that have consistent relationships with several facets of good race relations.

The results in Table 4-1 lead to a description of schools with good race relations. The description below is based on variables that appear to have positive effects on more than one outcome variable, and negative effects on



none. If race relations is judged by student outcomes, schools with good race relations have the following characteristics:

- 1. A principal who is evaluated highly by the faculty. ;
- 2. Teaching and school activities designed to promote biracial association and respect.
- 3. Support for integration, which is shared and perceived by teachers, administrators, and students.
- 4. Positive racial attitudes of teachers, which are reported by the teachers themselves and perceived by students.
- 5. Absence of tension and conflict concerning racial issues and other social and educational concerns.
- 6. Warm and friendly interpersonal relationships among teachers, students, and parents.

Evaluation of the principal. This composite (T-15) is primarily determined by an overall evaluative rating of the principal, the description of the principal as supportive of both black and white teachers and as a person of major influence in the school and district. Schools whose principals are given high ratings on this composite by teachers tend to be described by both black and white students as high in fairness to students. White students in such schools also tend to be characterized by positive personal racial attitudes, by perception of positive racial attitudes on the part of others in the school, and by relatively extensive interracial contact.



Multiracial teaching. The teacher composite labeled multi-ethnic teaching (T-16) describes variations in the use of multi-ethnic texts, class discussions on race, intergroup projects, biracial projects, and positively evaluated minority history courses. This measure is associated with black students' perception of school fairness and with white students' racial attitudes. This finding is consistent with results in elementary schools, and strengthens the conclusion that integrated schooling is improved by a positive approach to multiracial teaching.

Of the school characteristics associated with race relations, instructional practices are perhaps the most susceptible to control and planning. The results for both elementary and high schools indicate that it is possible to design instructional practices to promote good race relations. These practices include the choice of instructional material: text material with multi-ethnic content is consistently related to positive outcomes. The practices also include deliberate efforts to involve black and white students interactively, and to incorporate racial topics and racial issues into instructional activities.

In several instances, teachers' evaluations of ongoing school programs as helpful to race relations are related to positive outcomes. The school services composite (T-17) includes guidance counselors, social workers, and teacher aides. Evaluations of these programs by teachers as helpful to race relations is associated with school fairness as reported by both black and white students and with racial attitude, racial contact, and perceived school racial attitudes as reported by white students. Note that the principals' evaluation of the adequacy of these services is related to

programs with regard to overall adequacy, rather than with specific regard to helpfulness for race relations. Human-relations programs include programs for parent-student contact, intergroup-relations programs for teachers, and intergroup-relations programs for students. The helpfulness of these programs for race relations as evaluated by teachers (T-18) and guidance counselors (C-12) is associated with positive attitudinal outcomes for white students.

Support for integration. When teachers report support for integration (T-2) white students express positive racial attitudes, report a relatively high level of voluntary racial contact, and perceive the school to be characterized by positive racial attitudes. Two kinds of relationship are reflected in these results. In some instances, teacher and student measures may be considered to be separate measures of the same variable. Specifically, teacher-reported support for integration and student-reported school racial attitude measure the degree to which people in the school like racial integration. Similarly, teacher-reported support for integration includes as a component the degree to which students like integration; student racial attitude and racial contact describe the same variable in different words and from a different perspective. These results give credence to two propositions: that the measuring instruments are valid and that there exist variations in teacher and student attitudes that are perceptible in shared ways.

There are other results that suggest independent relationships between support for integration on the part of staff members and racial attitudes of white students. The support for integration composite has components

descriptive of support by black and white teachers and by the principals. These components are also related to the racial attitudes and interracial contact of white students.

As a composite, the principals' report of support for integration (P-2) is significantly related only to racial contact. However, when one examines the items making the composite, it will be noted that principals' description of white teachers' and black teachers' support is significantly related to student racial attitude; white teachers' support is related also to perceived school racial attitude. The composite, however, has three additional components—support by the principal, the principal's superior, and the school superintendent. The Latter three components all correlate (nonsignificantly) in a negative direction with student racial attitude and perceived school social attitude. This presence in the composite camouflages positive associations for teacher variables.

The support for integration composites are not significantly related to black students outcome measures. At the item level, teacher-reported support by students is related to school fairness as reported by black students.

The Southern Schools study (NORC, 1973) found that teachers and principals who express positive racial attitudes have less prejudiced students. The present study affirms that finding, in a sample that includes non-Southern as well as Southern schools. Since a rather wide range of background variables were controlled, it seems tenable to conclude that the relationship between staff attitudes is not accounted for by the backgrounds of the schools and students. A reasonable working hypothesis is that:

- (a) the support for integration provided by staff members
 is an influential variable, if not the sole one, in
 determining the attitudes of students, and
- (b) the school itself--through its instruction, social climate, and extracurricular activities--is a medium for the transmission of that influence.

Racial attitudes of teachers. Teachers' racial attitudes (T-1) have a strong relationship with the racial attitudes and the racial contact of white students. The racial attitudes of principals are also related positively to those of white students. The relationships between racial attitudes of teachers and principals to white students' perceptions of school racial attitude suggest that the racial attitudes of school professionals are perceived and reported with substantial accuracy by white students. Moreover, the statements made by teachers and principals are personal statements of attitudes, while the perceptions reported by students include tension, unfairness, and complaints of favoritism, as well as the degree to which teachers appear to like integration. Thus, the attitudes of teachers and principals are associated with students' perception of actions and atmosphere in the school.

Teachers' (T-1) and counselors' (C-1) racial attitudes are not significantly related to black student outcome measures. Apparently, variations in these attitudes do not influence the racial attitudes of black students, nor their perceptions of racial attitudes of others.

The principals' racial attitude composite (P-1) is unrelated to black students'

race-relations outcomes. However, examination of the items that make up the composite (Appendix B, Table 2) reveals that there some of the component items have negative relationships with black student racial attitude. Specifically, black student racial attitude is negatively related to the principals' statements that black students and white students are better off in mixed schools (partial correlations are -.43 and -.25 for statements about black and white students respectively). Moreover, principals' racial attitude is negatively related to black students' achievement scores. A check was made to see if these relationships were mediated by a relationship between principals' racial attitudes and the distribution of students in academic and nonacademic programs. Principals' racial attitude is not related to the percent of black students in academic programs, vocational programs, or general programs. The findings regarding principals' racial attitude and race relations may be summarized as follows: there is evidence that principals' racial attitude is positively associated with white students' racial attitudes, white students' interracial contact, and white students' perception of racial attitudes characteristic of the school. There is no evidence of such a positive association with black students' outcomes; indeed there is some indication of a negative association for the principals' opinion that integrated education is best for students.

Absence of tension and conflict. When teachers describe a school atmosphere free of tension (T-3), both black and white students perceive racial attitudes in the school to be positive. White students also report a more positive personal racial attitude and a greater incidence of voluntary interracial contact.

Student-measured race relations variables are systematically related to the kinds and degrees of conflict reported by principals. Schools characterized by black students as having positive racial attitudes are marked by lack of conflict over racial issues (P-4) and instructional change (P-6). Schools that black students describe as fair are marked by lack of conflict over discipline (P-3), racial issues (P-4), and instructional change (P-6). For black students, positive racial attitudes, racial contact, and description of school fairness are related to the principal's lack of personal conflict between family and work (P-7). White students' racial attitudes are related to absence of conflict over discipline (P-3), racial issues (P-4), and ability grouping (P-5). Their perceptions of school racial attitude are related to absence of conflict over discipline and racial issues.

Race-relations outcomes based on white student responses are related to teachers' description of a desegregation process with positive effects--lessening prejudice, increasing learning, and improving schools (T-12).

It is always difficult to discern causal patterns in correlational data. Results regarding absence of tension and conflict are particularly troublesome in this regard because many different causal hypotheses are plausible. Positive racial attitudes on the part of students may produce conflict-free schools—and vice versa. Schools with little conflict may be perceived by black students as fair and racially positive because lack of conflict is the stimulus for such perceptions, or because fairness and racial equity minimize conflict. The results show that absence of conflict, positive racial attitudes, and positive

variables. It is a plausible—but not demonstrated—hypothesis that interventions that improve one will also improve others.

Interpersonal relations. The more often relationships involving teachers, students, and parents are described as warm and open (T-5), the more white students perceive school racial attitudes to be positive and report greater interracial contact. Black students describe such schools as fair to them. Note, however, that more formal relationships are associated with white student achievement. A similar finding was noted in the elementary schools. It appears that warm and open interpersonal relations are descriptive of high schools, with good race relations. However, more formal interpersonal relations are associated with better achievement. (This negative relationship with achievement was not found in the 1975 data reported later in this chapter.) To try to translate these findings into actions poses an obvious dilemma. open interpersonal relationships between students and teachers have positive effects on students' perceptions of the school environment. They are not an unequivocal good, however. It is necessary to develop relationships that are conducive to effective learning, and these relationships are not necessarily marked by closeness. Warm and open interpersonal relationships suggest that both students and teachers give emphasis to social values in the school setting. These values may compete with academic values. They may lead, for example, to lower expectations for achievement. The implication is that positive interpersonal relations may have value in a school, but that care

must be taken to assure that they do not supplant academic values.

A set of analyses was conducted to examine whether the presence or absence of particular school programs is related to student outcomes. The results are tabulated in Appendix C. The major conclusions may be summarized as follows. The existence of minority history and culture courses is associated with several indicators of good race relations for both black and white students. There are also positive race-relations outcomes associated with extracurricular programs geared toward minority group participation. Several achievement-related programs are associated with positive race-relations outcomes: achievement grouping of classrooms, special classes for underachievers, and ungraded classes. On the other hand, there are several variables whose absence is associated with positive outcomes: home visitors, teacher aides, remedial reading, teacher workshops, and biracial advisory committees.

Background Measures

Data regarding background variables are presented in Tables 4-3, 4-4, and 4-5. Table 4-3 shows the composition of the SES measures. Tables 4-4 and 4-5 show the correlations of each background measure with student outcomes and school characteristics respectively.

The SES of black students bears some relation to student-measured

race-relations outcomes (Table 4-4). It also has a bearing on school characteristics. The discussion in Chapter 3 suggests that low SES black elementary school students are likely to be in schools where racial attitudes are poorer and where practices that might improve racial attitudes are lacking. This pattern is true in high schools as well. Lower black student SES is significantly associated with: poorer teachers' racial attitude, lack of support for integration, perception by teachers of differences between black and white students, and absence of multi-racial teaching practices. Principals are less likely to evaluate race-relations, instructional, and human-relations programs as adequate when black student SES is low. These findings have an important bearing on the often-debated subject of school effects. There are arguments about whether school factors or back-ground factors are more important determinants of educational outcome. The findings in Table 4-5 suggest that the quality of schooling offered black students is related to their socioeconomic background.

The school's racial composition, the degree to which its community is urban, and its location in a Southern or non-Southern state also have relationships with school characteristics, as well as with student outcomes. These relationships call for a careful comparison of partial correlations with zero-order correlations (Table 4-2), to make sure that practical correlates of student outcomes are not obscured. In the present case, the comparison does not lead to a significant change in the description of schools characterized by good race relations. While a number of relevant correlations become smaller with correction for background measures, the pattern of significant relationships is similar.

Table 4-3

Composition of the Socioeconomic Status Scales for Black and White Students

	Weights		
	Black	White	
Mother a high school graduate?	.02	34	
Live with both parents?	.23	 .15	
Family newspaper regularly?	07	25	
Family own their homes?	09	16	
Number of siblings	06	03	
Family income	.00	•00	
Father's income	.00	.00	

^a1974 Data

Table 4-4

Zero-Order Correlations between Background Variables and Student Race-Relations and Achievement Outcomes: 1974 Data

•				Background Variables			٠.
			Black SES	White SES	% Black	% Urban	North/ South
Perceived school racial attitude	Black White		19 48**	36** 03	.42** 06	21 38**	01 .15
Personal racial attitude	Black White		01 .21	09 .18	.27* 02	03 .26*	.16 38**
Racial contact	Black White	. •	.06 .48**	.06	25* .37**	06 .36**	03 43**
School fairness	Black White	•	07 ⁽⁷⁾	07 .19	.21 19	.11 .19	03 13
Achievement	Black White	•	.23 .05	.38** .35**	08 22	.25*	04 .01

^{*} Significant at .05 level ** Significant at .01 level

 $¹_{\rm N} = 60 \text{ schools}$

Table 4-5

Zero-Order Correlations between Background Variables and School Conditions: 1974 Data

	,	Background Variables			•
Teacher Variables	Black SES#	White SES	% Black	% Urban	North/ South
 Teachers' racial attitude Support for integration 	.44**	.03	.34**	.43**	50**
- I - I - I - I - I - I - I - I - I - I	34**	.05	28*	-:24	.41**
3. Absence of tension	28*	12	17	37**	.37**
4. Teachers' job attitude	02	02	22	10	.36**
5. Interpersonal relations with students	.03	08	.19	02	.02
Interpersonal relations among teachers	02	04	. 04	.09	27
7. Interpersonal relations of principal	12	.10	.1 0	.05	16
8. School autonomy	.04	.04	.í1		. 11
9. Teacher autonomy	12	.10	 07	. 30*	33**
10. Inequality	07	.12		.09	25*
11. Perceived racial differences	34**	02	.13	 04	.17
12. Desegregation process	14		~.15	07	.14
13. Teaching style (1)		.04	01	. 02	06
14. Teacher training	04	08	. 03	~.20	.06
15. Evaluation of principal	.1€	18	. 07	. 07.	04
Artucipal	.13	02	.23	. 09	15
ccacutug	38**	14	17	58**	.53**
Selvices	01	.14	13	.10	13
18. Evaluation of human-relations program	20	.04	24	06	06
19. Evaluation of instructional program	06	.02	 05	.19	25*
20. Teaching style (2)	.12	16	.26*	07	.01

^{*} Significant at .05 level ** Significant at .01 level





 $¹_{N = 60 \text{ schools}}$

Table 4-5 (Continued)

Tenth Grade

Zero-Order Correlations between Background Variables and School Conditions: 1974 Data

ų	o		Back	ground Var	iables	·.
	Principal Variables	Black SES	Thire '	% Black	% Urban	North/ South
1.	Principal's racial attitude	04	~.03 `	.32*	.23	43**
2.	Support for integration	11	06	17	~.19	.43**
3.	Absence of conflict: discipline	18	.00	03	~.17	.25*
4.	Absence of conflict: racial issues	21	09	04	19	.14
5.	Absence of conflict: ability grouping	07	.01	.12	.13	.09
6.	Absence of conflict: instructional change	e .04	.06	. 07	.00	.17
7.	Absence of principal's personal conflict	.11	10	.10	.04	09
8.	School SES	31	~.51**	` . 53**	47**	.00
9.	Violent behavior	.46**	.08	.15	.50**	47**
10.	Principal's interpersonal relations	.13	26*	03	.21	16
11.	Inequality	13	~08	36**	.03	21
13.	Principal's job attitude	.19	.12	.09	06	05
14.	Evaluation of race-relations program	41**	~.13	29*	32*	.35**
15.	Evaluation of instructional program	33**	10	02	-,20	• . 02 % *
16.	Evaluation of human-relations program	26*	~.03	17	20	.02
17.	Evaluation of services	12	05	08	29*	.03

^{*} Significant at .05 level ** Significant at .01 level

 $¹_{N = 60 \text{ schools}}$

Table 4-5 (Continued)

Tenth Grade

Zero-Order Correlations between Background Variables and School Conditions: 1974 Data

	range and the second second second second second second second second second second second second second second	: \		Background	Variables	
	Guidance Counselor Variables	Black SES	White SES	% <u>Black</u>	% <u>Urban</u>	North/ South
1.	Counselors' racial attitude	.35*	03	.21	.20	25
2.	Rules and discipline	11	14	14	~.30*	. 25
3.	Counselor duties	.15	02	. 20	.31*	47**
4.	Perceived racial differences	.01 ~	04	~.13	.01	.00
5.	Evaluation of facilities	.18	.33*	23	.36*	34*
\ 6.	Counseling practices	.00	16	.11	.27	30*
7.	Interpersonal relations of principal	15	03	03	02	.05
8.	Interpersonal delations with teachers	17	.00	07	10	.03
9.		13	. 05	.08	07	.05
10.	Evaluation of race-relations program	07	10	.25	.28	14
11.,	Evaluation of instructional program	.18	19	.20	. 28	10
12.	Evaluation of human-relations program	.16	07	.23	.13	14
	. \	.12	.07	08	.21	15

^{*} Significant at .05 level ** Significant at .01 level

 $^{^{1}}$ N = 48 schools

An Analysis of 1975 Data

The analysis of relationships between school conditions and student outcomes was repeated using the 1975 data base. There are 21 schools with 1975 data. They were selected from the 1974 sample on the basis of composite student race-relations measures. Eleven schools were strong in race relations in 1974, and ten were weak. Eleven schools were Southern and ten were non-Southern. A description of how the 1975 sample was selected is presented in Chapter 6. A reduced amount of staff data was collected in the 1975 survey. In particular, the principal's interview form was omitted.

Tables 4-6 and 4-7 present the partial correlations and zero-order correlations, respectively, between measures of school conditions and measures of outcomes. This discussion focuses on the light that the 1975 data shed on interpretation of the 1974 data. Since the data base contained only 21 schools, there are a few degrees of freedom for establishing new relationships. We say that a 1975 result "confirms" a 1974 result if the coefficient is significantly different from zero in the predicted direction using a one-tailed significance test.

Inspection of Table 4-6 leads to several conclusions. In 1975, as in 1974, black student outcomes are much less closely associated with measured school conditions than are white student outcomes. Unfortunately, the conditions most closely related to black student measures in 1974 were not retested; these were measures from the principal's interview describing seriousness and sources of conflict within the school. The 1975 results offer little guidance to school conditions associated with the attitudes and perceptions of black high school students.

Achievement measures of both black and white students were poorly predicted in 1975 as they were in 1974. No relationship involving achievement



Partial Correlations between School Conditions and Student Race-Relations and Achievement Outcomes: 1975 Data Table 4-6 Tenth Crade

,		Perceive	Perceived School	Studenta	Per sonal				.•			
,	Teacher Variables	Racial A	Attitudes	Racial At	Attitudes	Racial (Black	Contact	School Black	Fairness White	Achievement Black Whi	White	
].					Ì					
ij.	Teachers' racial attitude	.12	.36	- 40	.46ª	· ,00	. 39ª	.19	ક	36	. 05	
2.	Support for Integration	78.	39ª	02	59ª	-, 20	46ª	89	- 12			
٠	Absence of tension	35p	8 y 5	25	. 198	7.7	F.78	2		: :	,	
4			?	3		ř	76.	07.	Α.	2		
4	reachers' job attitude	.10	.25	8	. 26	.16	- 36	.12	06	28	03 b	
δ,	Interpersonal relations with students	.17	. 38ª	. 11	.21	14	ц.	.43ª	74.	. 28	,12 ^c	
9	Interpersonal relations among teachers	.12	.42	₁₀ р	. 53	05	. 27	.03	.35	.12	64.	
.7.	Interpersonal relations of principal	61.	.43	.11	.51	.15	.56	.30	.33	- 09	. 24	
&	School autenomy	.10	60:	.26	.18	. 22 ^b	.32	.33	- 01	. 62	.26	
6	Teacher autonomy	- 12	29	.17	14b	.07	. 39	.38	. 10	60.	.27	
10.	10. Inequality	28	59	48	-,64	. 57	47	-, 38ª	- 56	80.	15	
11.	Perceived racial differences					NOT AVA	AVAILABLE -		\			
12.	Desegregation process	47	57ª	8	76ª		71ª	21	33 _b	60.	42	
13.	Teaching style (1)	22b	-*00p	8	12 ^b	02	31	58	16	25	- 48	
14.	Teacher training					NOT AVA	AVAILABLE -				· .	
15.	Evaluation of principal	44	38ª	23	65 ^a	53	17ª	31.b	-, 33 ^b	13	-,39	
16.	Multi-racial teaching	. }				NOT AVA	AVAILABLE -					
17.	Evaluation of school services					NOT AVA	AVAILABLE				-	
18.	Evaluation of human-relations program					NOT AVA	AVAILABLE				!	•
19.	Evaluation of instructional program		.			NOT AVA	AVAILABER	3			-	
20.		90	06 ^b	.11	- 04	· 60° √	13b	53	30	40	47	
•	NOTES: *Significant in 1974 and 1975 (.05 level, one-tailed	.05 level, 0		test).			•					
	Significant in 1974 but not in	tn 1975		4						:		
											é	

CNote difference in sign for 1974 and 1975 results

Table-4-6 (Continued)

Tenth Grade

Partial Correlations between School Conditions and Student Race Relations and Achievement Outcomes: 1975 Data

	1	Perceived School Racial Attitudes		Students' Personal Racial Attitudes	' Personal Attitudes	Racial (Contact	School	Fallilian	Actiber	- Luome	
110	Principal Variables	Mack	White	Black	White	Black White	Mite	Black	Black White	Biazk White	White	
l. Principal's racial attitude	racial attitude	30	36 ^c	8	920°	£.24	90.		. 32.	15b	46	•
2,° Support for integration	integration	8	13	41	26	22	23 ^b	• 05	- 24	80 •	.33	
3. Absence of c	Absence of conflict: discipline					NOT AVAILABLE	LABLE -	4				
4. Absence of c	Absence of conflict: racial issues				0-	NOT AVAI	AVAILABLE -		0			
5.* Absence of c	5.* Absence of conflict: ability grouping					NOT AVAILABLE	LABLE -					
6. Absence of c	Absence of conflict: instructional change		3		. :	NOT AVAILABLE	LABLE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\ \ .			
7. Absence of p	Absence of principal's personal conflict	-	,			NOT AVAILABLE	LABLE		, !		. 1	***
8. School SES		.37	.37 ⁸	, E	32	. 23	÷.28	.36	17	-, 19	21 ^b	
9. Violent behavior	vior	34	22	8	.55	23	, 45°	.03	.42	.34	.00	
10. Principal's	Principal's interpersonal relations					NOT AVAILABLE	TABLE -					
11. Inequality			, 			NOT AVAILABLE	LABLE					
.13. Principal's job attitude	Job attitude	37	26	37	51	10	45	62	41	21	36	
14. Evaluation o	14. Evaluation of race relations program					NOT AVAILABLE	LABLE -					
15. Evaluation o	15. Evaluation of instructional program	-				NOT AVAILABLE	LABLE -					
16. Evaluation o	16. Evaluation of human relations program		-		3	NOT AVAI	AVAILABLE -				İ	•
17. Evaluation of services	f services				-	NOT AVAILABLE	LABLE -	t i			•	
a. b. c.	a. b. c. (Seé page 130)				•	v		,				الد م
N=21 Schools	5					•	••				X.	: / :

Table 4-6 (Continued)

Tenth Grade

Partial Correlations between School Conditions and Student Race Relations and Achievement Outcomes: 1975 Data

	Guidance Counselor Variables	Perceive Racial A Black	Percelved School S Racial Attitudes Black White	Students' Personal Racial Attitudes Black White	Personal Attitudes White	Racial Contact Black White	Contact	School	School Fairness Black White	Achievement Black White	ment
					<u> </u>	 					
ï	Counselor's racial attitude	10	• 05	07	.37	. 20	.28	32	91.	.11	. 12
2.	Rules and discipline	19	.15	07	.32	.43	01	. 9	.25b	23	15
<u>ښ</u>	Counselor duties	.16		.23	15	23	11	.45	08	08	. 02
4	4. Perceived racial differences					NOT AVAILABLE	LABLE		,		1
5.	Evaluation of facilities	15	.02	, 00.	.39	.13	.24	07	.17		01
•	6. Counseling practices	17	37	31	.03	20	.13	49	04	41	.23
7.	Interpersonal relations of principal	02	.23	01	60	61.	.03	.30	.15	51	35
8	Interpersonal relations with teachers	05	. 28	60.	. 24	. 21	8	02	.21	31	44
6	Interpersonal relations: parents, students	70.	.43	02	.53	.32	. 28	.15	. 58	90.	.10
10.	Evaluation of race relations program					NOT AVAILABLE	LABLE			- !	
11.	Evaluation of instructional program			. !		NOT AVAI	AVAILABLE	•			
12.	Evaluation of human relations program		1		.	NOT AVAI	AVAILABLE -		0		-
13.	Evlauation of services		 			NOT AVAILABLE	LABLE				

Table 4-7

Zero-Order Correlations between School Conditions and Student Race-Relations and Achievement Outcomes: 1975 Data

		-		.00	Personal		,					
	Teacher Variables	Black	White	Black	Attitudes	Black	Unit act	School	Fairness White	Achievement Black Will	Wilte	
1.	Teachers' racial attitude	18	21	80.	.72**	26	. 69**	£4.	- 04	.27	.12	
5	Support for integration	. 05	.14	22	-, 65 **	-, 38*	65**	36*	.04	20	25	
ب	Absence of tension	*05°	.62**	. 02	20.	.13	03	09	.31	-, 30	.12	
4	Teachers' job attitude	.28	. 52**	30	47*	20	53**	26	.21	42*	17	
'n.	Interpersonal relations with students	.18	.27	.10	.07	-, 11	60.	.33	.31	07	: 21	
ن و د	Interpersonal relations among teachers	19	.34	01	.21	16	.11	.01	. 24	19	.14	
7.	Interpersonal relations of principal	. 28	¥9ħ.	03	. 32	03	. 32	.03	*87.	14	~· 06	
ထံ	School autonomy	. 29	->02	. 23	.26	80.	*66.	. 29	.02	-,16	14	
တံ	Teacher autonomy	60.	-,12	.25	,27	.11	.36*	.21	.14	.05	07	
10.	Inequality	09	56**	17	. 91	34	07	07	60**	90.	14	
11.	ll. Percelved racial differences					NOT AVAILABLE	TLABLE				!	
12.	12. Desegregation process	45*	45*	02	-, 54*	25	53**	19	25	.21	08	
13.	13. Teaching style (1)	.15	ક	.02	25	18	33	40*	31	42*	-, 46x	
14.	Teacher training	•				NOT AVAILABLE	ILABLE			0		
15.	Evaluation of principal	40*	54**	02	23	25	24	3.	-,40*	. 03	22	
16.	Multi-racial teaching					NOT AVAILABLE	ILABLE				./	
17.	Evaluation of school services		***************************************			NOT AVAILABLE	ILABLE					
18.	Evaluation of human-relations program	-			-	NOT AVA	AVAILABLE					
19.	Evaluation of instructional program					NOT AVAILABLE	ILABLE					
20.	Teaching style (2)	.12	16	.24	.12	.07	.07	20	43*	25	-,40*	

Table 4-7 (Continued)

Tenth Grade

Zero-Order Correlations between School Conditions and Student Race-Relations and Achievement Outcomes: 1975 Data

		Perceived School		Students' Personal			;		`.		
	Principal Variables	Racial Attitudes Black White	White	Racial Arritudes Black White	_	Racial	Racial Contact Black White	School 6	Patrness White	Achievement Black Whi	White
-	l. Principal's racial attitude	25	-, 54 **	*14.	.43**	.22	. 52**	.36*	-, 32	.19	23
7	. Support for integration	01	.15	53**	-, 43*	.29	41*	-, 21	.05	- 60	. 20
ď	. Absence of conflict: discipline				1	NOT AVAILABLE	11ABLE				ł
4.						NOT AVAILABLE	ILABLE				ŀ
Ş	. Absence of conflict: ability grouping	ي ا				NOT AVAILABLE	ILABLE	İ			. 1
9	6. Absence of conflict: instructional change	act.				NOT AVAILABLE	ILABLE		**		1
7	7. Absence of principal's personal conflict				4	NOT AVAILABLE	ILABLE				1
0 0	8. School SES	.61**	.25	61;	20	. 60	06	.18	16	62**	68**
Ó	9. Violent behavior	09	30	.18	.73**	. 02	**69.	.22	.28	28	13
10	10. Principal's interpersonal relations	ं े.12	03	.35	**0°	.25	.27	.10	01	(.18	08
1	11. Inequality				!	NGT AVAILABLE	ILABLE				1
13.	13. Principal's job attitude	53**	31		13	.22	08	-, 30	17	.19	.02
14.	14. Evaluation of race-relations program	1	1			NOT AVAILABLE	ILABLE				
15.	15. Evaluation of instructional program					NOT AV	AVAILABLE			-	
16	16. Evaluation of human-relations program					NOT AV	AVAILABLE				1.
17.	. Evaluation of services					NOT AVAILABLE	ILABLE .				-
	* stoniffcant at .05 level								•		

153

Table 4-7 (Continued)

Tenth Grade

Zero-Order Correlations between School Conditions and Student Race Relations and Achievement Outcomes: 1975 Data

•		Perceive		Students Personal	Personal						J.
	Guidance Counselor Variables	Racial A Black	Racial Attitudes Black White	Racial Attitudes Black White	White	Racial	Contact	School Black	Fairness White	Achievement Black Whi	ement White
.	Counselors' racial attitude	14	31	.20	.65##	.30	. 60**	.15	-, 05	.33	.10
2.	Aules and discipline	- 00	. 26	16	08	. 24	- 30	-, 18	11)	27	~. 07
ų	Counselor duties	.12	12	.41*	.10	02	. 14	. 534#	30	8 .	-: 03
4	4. Percelved racial differences					NOT AVAILABLE	ILABLE		· • · · · · · · · · · · · · · · · · · ·		.
ار د.	Evaluation of facilities	+04	05	.03	.34	. 26	.20	90 • ∶	.27	.23	.27
. 6	Counseling practices	23	+75	15	.30	01	*07	18	90 .	.34	.11
7.	Interpersonal relations of principal	00.	;31	-,08	. 02	.12	06	.11.	.27	27	22
x	Interpersonal relations with teachers	60.	.38*	02	.12	.07	03	17	.35	25	394
6	Interpersonal relations: parents, students	. 02	, 43 ⁴	07	.21	.22	90	-, 03	. 56**	.08	.01
10.	Evaluation of race-relations program	,				NOT AVAILABLE	LABLE	 			ļ
11.	Evaluation of instructional program	" ".		, , , , , , , , , , , , , , , , , , ,	-	NOT AVAI	AVAILABLE	1			
12.	Evaluation of human-relations program				-	NOT AVA	AVAILABLE		,		
13.	Evaluation of services			,	-	NOT AVAILABLE	LABLE			•	.

* significant at .05 level.

** significant at .01 level (one-tailed tests)

N=21 schools

measures was confirmed, by the definition presented previously. There was one substantial <u>reversal</u>: Warm and open interpersonal relationships between teachers and students was positively associated with white student achievement in 1975. The relationship was negative in 1976.

Results regarding white student race-relations outcomes held up much better. The measures based on teachers' responses were particularly successful. Twenty-three relationships of teacher measures with race relations outcomes were retested. Fifteen of them were confirmed by the definition presented above. Only a few principal and guidance counselor relationships were retested, and their cross-year success was less. There is one sizeable reversal of a relationship. In the 1975 analysis, the principals' racial attitude (P-1) is negatively related to the school racial attitude as perceived by white students. No explanation of this paradoxical finding is readily apparent.

The 1975 analysis gives support to the conclusion from the 1974 data that white students' attitudes are meaningfully associated with school conditions, especially when school conditions are measured by way of aggregated teachers' reports. The 1975 analysis gives emphasis to the importance of teachers' racial attitude, support for integration, interpersonal relationships between staff and students, an atmosphere free of tension, a positively functioning process of desegregation, and high evaluation of the principal by the teachers.

Discussion .

The major findings regarding race relations in high schools may be summarized as follows:

The most effective school conditions fall into the following categories: A principal who is evaluated highly by the faculty; teaching methods that emphasize multiracial curriculum material and teamwork; support for integration which is shared by teachers, administrators, and students; positive racial attitude of teachers; absence of tension and conflict concerning racial issues and other social and educational concerns; and warm and open relationships among teachers, students, and parents.

The racial attitudes and interracial contact of white students is more closely related to school conditions than are those of black students. The black students measure most often associated with school conditions is the description of the school as fair to them.

- 2. Achievement scores are not closely associated with school conditions when background conditions are statistically controlled.
- 3. The socioeconomic background of black students has a relationship with characteristics of schools. Lower black student SES is significantly associated with: poorer teachers' racial attitude, lack of support for integration, perception by teachers of differences between black and white students, absence of multiracial teaching practices, and low evaluation by principals of programs of instruction, race relations, and human relations.

Three conclusions seem warranted by way of summary of the relationships between student outcomes and school conditions. First, at both the elementary



and secondary level there is clear evidence of overlap between good race relations among students and measurable characteristics of the faculty, administration, curriculum, training programs, and school policy. This result itself is important, in view of past speculations that school effects cannot be demonstrated apart from those of home and community. The relationships observed were independent of whether the students were rich or poor, Northern or Southern, urban or rural, predominantly black or predominantly white.

A second conclusion is that the relationships include some that are susceptible to intervention. They provide guides for the development of policies and strategies to improve the process of integration. The most clearly manipulable process variables, which have clear relationships with outcome, are those having to do with teaching methods and practices. The use of multi-ethnic curriculum material; the use of projects and discussions of racial issues; the assignment of white and black students to work with and play with one another; a teaching style that de-emphasizes warning and scolding; an emphasis on child-centered teaching methods; all of these variables predict indicators of good race relations. They are readily arranged by teachers and principals; they can be encouraged by school boards and superintendents; they can be made important objectives in program development and funding.

There are other characteristics of successful integrated schooling that can be influenced only slightly less directly. The racial attitudes of teachers are positive signs of good race relations. The racial attitude of a school's staff perhaps cannot be altered by decision or fiat. It can be improved, however, by selection, by training, and by reinforcement of the behaviors that

go with positive racial attitude. A climate of interpersonal relations in which the staff is warm and friendly in dealing with students (and perhaps a bit more formal and professional in dealing with one another) is suggested by the results as one conducive to good race relations. Reduction of conflict and tension—whether a cause or effect of positive racial attitudes—is consistently associated with good race relations.

These are the findings that translate readily into actions. Another report from the present project is a Handbook for effective integrated schooling, which proposes plans of action based on intensive observations and interviews in successful schools. But principals, teachers, school boards, and curricular committees can also identify actions guided by results that are congruent to their own school situations.

The third conclusion is that the results are not plagued by the contradictions and incompatibilities so often associated with multivariate outcomes. There are a few complexities, to be sure. Interpersonal relations sometimes seem most effective if they are warm and open and, at other times, if they are more formal. One finding—that black student achievement in high schools is negatively related to principals' racial attitudes—can hardly be made a basis for conscientious school policy. But almost always there is no contradiction between measures—associated with good outcomes for black and white students or with good race relations and good achievement. Based on the results presented in this chapter, it is possible to envision a program of actions to improve integration, a program with internal consistency and without built—in danger of undesired side effects.

The issues of correlation and causation must be faced. In the next chapter, we consider the degree to which subsets of the data are consistent with causal hypotheses. (The data base is too large and degrees of freedom too small for exploration of all plausible causal theories.) Still, the data are correlational data, and causation cannot be demonstrated unambiguously by using it. It is always possible, for example, that good student attitudes cause good faculty attitudes, or that both are caused by community characteristics.

Whatever the causal relationships might be, it is important to recognize that correlation itself has important policy-related implications. Consistency of direction among a wide range of indicators of race relations—obtained from a variety of sources—indicates that the multidimensional construct of race relations is amenable to treatment in a relatively straightforward way. It suggests that it is possible to describe schools as effective or ineffective in terms of race relations, and to identify patterns of variables that distinguish one from another.

Finally, empirical correlation in itself offers useful guidance for decisions. It reveals complexes of variables that covery, and thus feasible entry points into the system. It gives guidance to characteristics to be avoided because they are associated with undesirable outcomes. Such guidance is both valuable and hard to get in education. A system of correlational results, such as that obtained in this study, can be a critically important contribution to wise judgments and decisions.

Chapter 5

Causal Analyses of Student Outcomes

This chapter reports a series of analyses designed to identify causal relationships among variables. Student racial attitudes are the outcome variables that are the focus for all the analyses. The principal questions are these: Having demonstrated correlational relationships among process and outcome, to what degree can we infer causal relationships? Particularly, what causal relationships between process and outcome variables can be inferred?

Chapter 5 begins with a description of the methodology and its rationale. It then presents and evaluates structural models for the racial attitudes of black and white fifth graders. This discussion is extended by an analysis of the racial attitudes of white students, designed especially to clarify the causal significance of length-of-time integrated. The chapter then explores racial attitudes of black and white tenth graders. In each case, a general model is presented and analyzed. A second high school structural model for racial attitudes of black and white students, placing special emphasis on potentially manipulable school process variables, is then considered.

In relating the chapter to others in this report, one should bear in mind some of its specific features. First, the methodology of causal analysis places severe constraints on the number of variables that can be analyzed together (although providing a concomitant enrichment of the relationships that can be carefully explored). Moreover, the variables studied must be placed in a particular structural model. Both the selection of the variables and the shapes of the models have been judgmental. They were necessarily chosen from a very large number of sets of variables and postulated causal patterns that

might have been studied. The analyses in this chapter were performed on the 1974 data base.

Second, the names for variables and measures used in this chapter do not correspond directly to those defined in other chapters. In causal models, composite measures are generated as a part of the total process of analysis. The particular composites depend on empirical relations among a given set of measures and on hypothesized structural relations. Therefore, it is important to interpret variables and measures in the light of the specific information given in this chapter. A list of variables used, with a key to the symbolism in the diagrams, is appended to this chapter. Composite measures are defined by the relationships presented in each diagram, and each should be interpreted with the aid of the relevant diagram.

Methods of Analysis

Problems arise in attempting to draw inferences from nonexperimental design data where a large number of outside factors influence the variables under consideration and their effects cannot be ruled out on the basis of randomization. Methodologies that allow causal inferences to be made in this instance have been developed for biology and economics but have only recently been applied to the social sciences.

Causal inference procedures begin with stating a verbal theory that is often depicted as a diagram (path model) making explicit the relationship hypothesized among a set of variables as well as the causal sequence thought to exist among them. Once the theory is stated, either verbally or pictorially, it must then be specified in mathematical language, which in turn permits empirical verification of the model underlying the theory. If the data do not confirm the model, or

more specifically, parts of the model, the model may then be modified in light of known substantive theory and re-examined for goodness of fit. Since this interactive model building and testing approach starts with a substantive model based on the interpretation of theory, the final model is itself more likely to yield interpretable results than one based on strictly exploratory procedures which are only required to meet statistical criteria.

In this analysis, interpretive or explanatory path models were hypothesized and tested in an effort to estimate the direct and indirect determinants of attitudinal outcomes. These models were developed for both the black and white populations, and the resulting comparisons across subpopulations lead to statements of the differential importance of various predeterminers or "causes."

Figure 5-la presents the general form of the type of models which were analyzed in this report. Such models imply that certain characteristics of

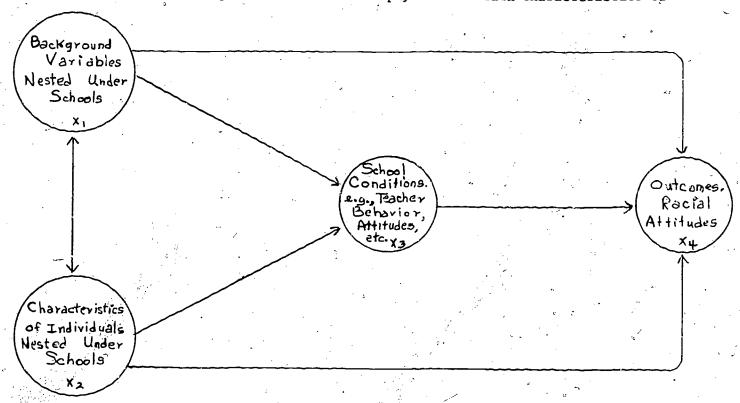


Fig. 5-1s. General form of causal models presented in this report

students lead to teachers' and principal's attitudes, which in turn affect attitudes of the students. The result of applying path analysis techniques to such a priori, logical models is a statement about the relative importance of background variables (e.g., SES) and mediating school conditions (e.g., teachers' racial attitudes) in determining student racial attitudes.

Figure 5-lb presents the more specific pictorial representation of a causal model, indicating the types of variables involved as well as their hypothesized relationships. Arrows going in one direction specify the direction of causality. Arrows between two variables going in both directions, as between X_1 and X_2 , signify that one is unable or unwilling to assume the direction of

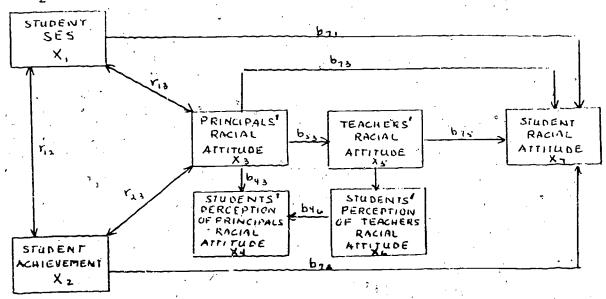


Fig. 5-1b. A more specific causal model

causality. Path coefficients (b_{ij}) will be estimated for one-directional arrows, while correlations, r_{ij}, (no causal relationships) will be estimated for two-way arrows. The path coefficients are analogous to partial regression coefficients, and they will be so scaled that their relative size is proportional to their importance as a determinant. Succeeding figures will have the estimated path coefficients placed on their appropriate arrows.



The relative size of any given path coefficient, bij, may be interpreted as the relative direct influence of the variable at the tail of the arrow on the variable at the head of the same arrow. "Direct" in this sense is defined as the influence which gemains after all other independent variables in the causal equation have been controlled. The total causal effect of one variable on another may have two estimable components: the direct effect, i.e., unmediated by any intervening variables; and the indirect effect which, of course, takes into consideration one or more intervening variables.

For example, in Figure 5-lb, there are two paths from principal's racial attitudes to students' racial attitudes. The direct effect of principal's racial attitudes is estimated by the path coefficient, b_{73} , which is associated with the single direct path. The indirect effect of principal's racial attitudes on students' racial attitudes is the product $(b_{53}) \cdot (b_{75})$. That is, the products of the remaining one-way path from principal's racial attitude to students' racial attitude yield the indirect effects. The total hypothesized principal effects on students' racial attitudes is then simply $b_{73} + (b_{53}) \cdot (b_{75})$. Tables of the hypothesized direct and indirect effects of each explanatory variable on its respective dependent variables accompany each pictorial diagram.

There are a number of methods for estimating the path coefficients, but the maximum likelihood estimation procedures used in Joreskog's Lisrel model (1972) is generally considered optimal since it provides simultaneous estimation of all parameters (path coefficients) as well as an overall goodness-of-fit test. More importantly, it allows the simultaneous estimation of "causal" relationships between constructs of unmeasured variables. That is, when we have multiple measures of some construct(s), we can get a "pure" or error-free estimate of this construct, as well as its "causal" relationship with other variables and constructs in the system.

For example, rather than use by itself any one of the error-prone observed measures to be a proxy for a concept such as SES, we can elect to make use of all the information (e.g., father's education and/or occupation, mother's education, etc.) available in estimating a single composite construct called SES.

Such composite constructs are similar to factor scores, but are not subject to the estimation errors involved in computing factor scores from observed measures.

One can think of the structural or path coefficients which estimate the causal effect of one construct on another as being corrected for attenuation where the correction factor is more closely akin to the communality than to the reliability. Thus, through the use of the Lisrel model, we can minimize the dilution effects of measurement error through the use of unmeasured variables. Furthermore, the structural model approach leads to the formulation of these constructs or composite variables on both a rational and a statistical basis. Since the maximum likelihood estimation procedure is simultaneous, all information available is used in their estimation.

Causal Analyses of Elementary School Data

Three separate structural models of fifth grade data were analyzed. The first examines effects of SES, achievement, and the racial attitudes of teachers and principals on the racial attitudes of black and white students. The second examines effects of SES differences, achievement differences, time integrated, school climate, and teaching style. The third model looks at racial attitudes of black and white students combined, with special emphasis on effects of racial contact practices and classroom race relations.

Model I. Effects of SES, Achievement, and Racial Attitudes of Teachers and Principals

Figures 5-2a and 5-2b present the results of solving the structural equations underlying the hypothesized causal model for black and white students



respectively. Given this hypothesized model, maximum likelihood estimation procedures were used to generate a unique-population variance-covariance matrix which, in the maximum likelihood sense maximized the likelihood of the observed variance-covariance matrix. The resulting path coefficients were rescaled (standardized) for ease of interpretation. Relative sizes of path coefficients within samples can be compared and contrasted. However, comparison of the absolute size of corresponding standardized path coefficients across subpopulations should be interpreted cautiously unless the variances (true variances in the case of unmeasured variables) are approximately the same (Schoenberg, 1972). Thus, all conclusions concerning differences in magnitude of courses based on comparing absolute sizes of path coefficients across subpopulations will only be made if the variances are relatively the same.

In Figures 5-2a and 5-2b the circles represent unmeasured or "true" variables (constructs) and the rectangles represent observed or fallible variances. Therefore, in Figure 2b, SES, achievement, self-perception, teachers' racial attitudes, and students' racial attitudes are all constructs measured without error. The squares clustered around the circles are the indicators of that particular unmeasured variable, construct, or factor (the terminology can be considered synonymous). The numbers associated with the arrows going from the unmeasured variable to its indicators may be interpreted as factor loadings. In a sense, then, path analysis with unmeasured variables (factors) can be considered to be a combination of factor analysis and multivariate regression, where both the factors and the directions of the regression among factors are fitted according to some underlying theory.

Figure 5-2a presents the results pictorially for the fifth grade black students. The school is the unit of analysis here, so the resulting correlations

^{*}The appendix to this chapter presents a more complete description of of the measures involved in the models as well as in the direction of scoring.



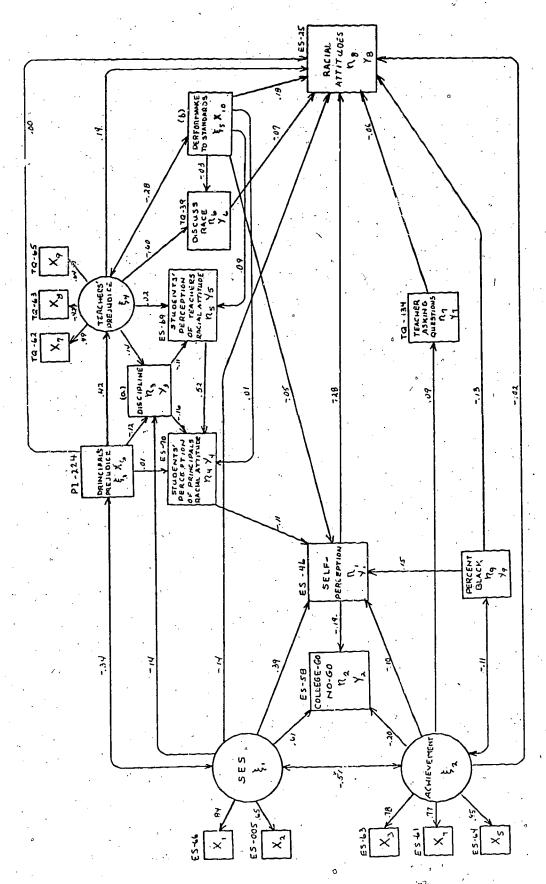


Fig. 5-2a. Black 5th grade structural models of racial attitudes



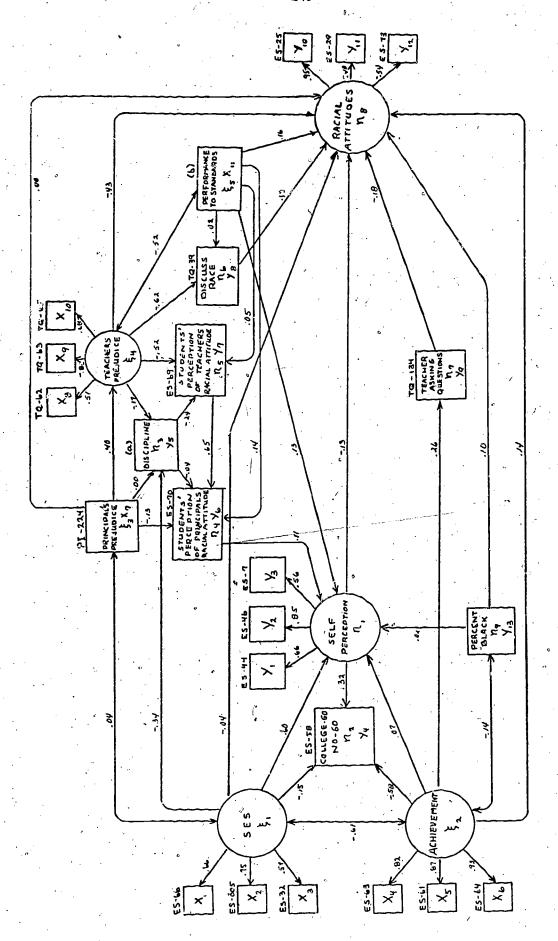


Fig. 5-2b. White 5th grade structural models of racial attitudes

and regression weights are based on school means. Inspection of the path diagram discloses that the most reliable indicator of SES for fifth grade black students is X_1 , the number of brothers and sisters. Whether or not the child owns a bicycle (X_2) has a considerably smaller loading, .65 vs. .84, on the SES factor. Turning to Figure 5-2b, the fifth grade white student results, one notes that the best indicator of SES is X2, whether or not the child owns a bicycle. The white subpopulation also has a third indicator, whether or not the family owns its own home, which did not appear for the black fifth grade The SES construct differs for the two racial groups. subpopulation. ference appears in the internal structure of the measure as well as in its relationships with outside variables. For example, black student SES has a proportionately greater effect on reported intentions of going to college than it has on self-perception. White student SES plays just the reverse role for fifth graders. That is, for white students, SES has a much greater impact on selfperception than on college-going plans. The reader will note that self-perception is measured by a single item for blacks, having to do with whether they think they "can do things as well as other students." The remaining self-percep-, tion items have to do with whether they are satisfied with themselves or whether they can do their school work as well as others; both of these did not cluster for black students (unlike white students). This indicates a complex or compartmentalized self-concept in the case of the black fifth graders.

The "true" correlation between SES and achievement is -.51 and -.61 for black and white students respectively. The term "true," of course, indicates the relationship between SES and achievement when the errors of measurement are removed through the use of multiple indicators for each of the two constructs.

It is also interesting to note the achievement factor has a similar loading pattern for black and white students. That is, in both groups, the most reliable measure of achievement is the test measuring basic concepts, although for black students it is a proportionately more reliable indicator of achievement. It should be remembered here that the factor patterns for the unmeasured variables, SES, achievement, etc. are not solved for independently of their relationships with other variables in the system. That is, all information available is used in the maximum likelihood simultaneous solution, and therefore the obtained loadings reflect the "best fitting" using all the information simultaneously.

Another salient difference between the two groups is the proportionately greater effect of measured achievement on college-going intentions for white students (-.58 for white vs. -.20 for black students). It would seem that SES is a primary determinant of college-going plans for black students while measured achievement is more important for white students. This difference may reflect a realistic appraisal by the black child of his family's willingness and ability to provide the money required to attend college.

Tables 5-2a and 5-2b for black and white students, respectively, give complete summary of the direct, indirect, and total effects (total = indirect + direct) of each hypothesized explanatory variable on the respective dependent variables. This is a necessary supplement to the path diagram since the total and indirect effects are not directly available (i.e., without further computation) from the path diagram.

Inspection of Tables 5-2a and 5-2b reveals the two largest total effects on self-perception for black students to be SES (.39) and percent of black students in the school (-.15). In other words, the higher the family SEC and the greater the percentage of black students, the more positive the self-concept of black students.



For white students, self-concept is relatively independent of the percentage of black students, but is primarily a function of SES and to some degree of the perceived principal's and teachers' racial attitude. That is, high SES black students, like white students, tend toward a positive self-concept yet perceive the principal as racially biased.

The results presented in Tables 5-2a and 5-2b with respect to the determinants of college-going intentions were discussed earlier in reference to the path diagram. We therefore proceed now to evaluating the hypothesized determinants of the teachers' perception of the relative extent of discipline problems in the two subpopulations. The negative correlation (-.34) between white SES and the proportion of black students who are discipline problems suggests that the higher the white SES level within a school, the more likely it is that the teacher will feel the black students to be a discipline problem. A similar, although weaker, relationship holds for the black sample. The path coefficient (-.17) in the white sample between teacher prejudice and proportion of black students who are discipline problems suggests that the less prejudiced teachers consider the black students to be less of a discipline problem. Conversely, the interpretation of the same rath coefficient for the black sample suggests (albeit weakly) that the less prejudiced teachers are more likely than the racially prejudiced teachers to consider the white students a discipline problem.

White students' perception of a principal's racial attitude is almost independent of the principal's actual racial attitude and is almost entirely a function of the students' perception of the teachers' racial attitude, which in turn appears to be a function of principal's racial attitude. That is, the causal mechanism appears to be as follows for white students:



153 Table 5-2a

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 5th Grade)

Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
	Self-Perception (R = .45)	
SES	.39	00	.39
Achievement	10	. -	10
Principal's Prejudice	_	.00	00
Teacher's Prejudice	- · ·	.00	.00
Performance to Standards		01	01
Discipline	. -	.02	.02
Student's Perception of Principal's Racial Attitude	11	<u>-</u>	11
Student's Perception of . Teacher's Racial Attitude	<u> </u>	06	06
Percent Black	15		15
9	College-Go No-Go	(R = .68)	
SES	.61	07	.54
Achievement	20	.02	18
Principal's Prejudice	-	.00	.00
Teacher's Prejudice	~ 3	00	00
Performance to Standards	· · · · · · · · · · · · · · · · · · ·	.01	.01
Self-Perception	19		~.19
Discipline	9	00	00
Student's Perception of Principal's Racial Attitude	_	.02	.02
Student's Perception of Teacher's Racial Attitude	^ ~	.01	.01
Percent Black	~	.03	.03

Table 5-2a (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 5th Grade)

Causes	Direct Effects	Total Indirect Effects	Total Hypothes <i>ize</i> d Effects
	Discipline (R	= .22)	
SES	~.14		-, 4
Principal's Prejudice	~.12	.06	06
Teacher's Prejudice	.14	~ .	.14
Student's Percept	ion of Principal'	s Racial Attit	ude (.59)
SES	~	.03	.03
Principal's Prejudice	.01	.04	. 05
Teacher's Prejudice	~	02	02
Performance to Standards	.01	.05	.06
Discipline	16	06	22
Student's Perception of Teacher's Racial Attitude	•52	_	.52
Student's Percep	tion of Teacher's	Racial Attitu	de (R = .14)
SES	_	.02	.02
Principal's Prejudice	-	•02	.02
Teacher's Prejudice	.02	-	/.02
Performance to Standards	•09		.09
Discipline	11	-	/4.11
	Discuss Race (R	= .59)	
Principal's Prejudice	-	25	~.25
Teacher's Prejudice	60	-	~.60
Performance to Standards	03	-	03
Teach	ner Asking Questio	<u>ns</u> (R = .09)	
Achievement /	.09	· •	.09

Table 5-2a (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 5th Grade)

Causes	Direct , Effects	Total Indirect Effects	Total Hypothesized Effects
Racia	al Attitudes (R = .48)	
SES	14	11	~.25
Achievement	02	.02	.00
Principal's Prejudice	• 00	.08	•08
Teacher's Prejudice	.19	.04	.23
Performance to Standards	.18-	.02	.20
Self-Perception	28		28
Discipline	-	01	01
Student's Perception of Principal's Racial Attitude	-	.03	.03
Student's Perception of Teacher's Racial Attitude	-	.02	.02
Discuss Race	07		~. 07
Teacher Asking Questions	06	_	*06
Percent Black	1 3	.04	09

Table 5-2b

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(White - 5th Grade)

Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
	Self-Perception (R = .69)	o
SES,	.60	.02	.62
Achievement	.07	_	.07
Principal's Prejudice	· "	.00	•00
Teacher's Prejudice		03	03
Performance to Standards	.13	.02。	.02
Discipline	·	02	02
Student's Perception of Principal's Racial Attitude	.11		.11
Student's Perception of Teacher's Racial Attitude	-	.07	.07
Percent Black	02.	• • •	02
	College-Go No-Go	(R = .66)	
SES	~.15	.19	.04
Achievement	58	.02	56
Principal's Prejudice	-	- <u>.</u> 00	00
Teacher's Prejudice	-	01	01
Performance to Standards	- -	.05	.05
Self-Perception	.32	· •	.32
Discipline		01	01
Student's Perception of Principal's Racial Attitude	•	.04	.04
Student's Perception of Teacher's Racial Attitude	· •	.02	.02
Percent Black	-	01	01

Table 5-2b (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(White - 5th Grade)

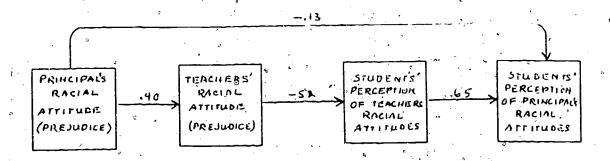
Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
	Discipline (R =	= .37)	
SES	34	_	34
Principal's Prepudice	•00	07	07
Teacher's Prejudice	17		17
Student's Perception		Racial Attit	
SES	· · · · · · · · · · · · · · · · · · ·	.07	.07
Principal's Prejudice	y 13	12	25
Teacher's Prejudice	-	30	3 0 `
Performance to Standards	.14	.03	.17
Discipline	04	16 ÿ	20
Student's Perception of Teacher's Racial Attitude	.65	/-	.65
Student's Perception	on of leacher's	Kaciai Attitu	$\underline{de} (R = .57)$
SES	-	.08	.08
Principal's Prejudice	<u>.</u>	19	19
Teacher's Prejudice	52	.04	.48
Performance to Standards	•05	-	.05 ~
Discipline	24	-	24
	Discuss Race (R	= .63)	ø
Principal ⁿ s Prejudice		25	, ~. 25
Teacher's Prejudice	62	-	62
Performance to Standards	• 02		.02
Teacher	Asking Question	ns (R = .26)	
Achievement	. 26	<u>-</u>	.26
	176		

Table 5-2b (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(White - 5th Grade)

•	Causes	٠.	Direct Effects	Total , Indirect Effects .	Total, Hypothesized Effects
•	•	Racial	Attitudes	(R = .64)	
	SES		04	08	12
	Açhievement		.14	06	.08
	Principal's Prejudice		00	17	17
	Teacher's Prejudice		43	00	43
	Performance to Standards	•	.16	- , 02	.14
	Self-Perception		13	· ~ .	13
•	Discipline			.00	.00
,	Student's Perception of Principal's Racial Attitude		_	01	×01
•	Student's Perception of Teacher's Racial Attitude		-	01	01
	Discuss Race	~ .	.13	, ~	.13
	Teacher Asking Questions		18	~	18
	Percent Black	•	.10	.00	.10



That is, the white students' contact with the principal is relatively minimal and, as a result, students attribute to the principal the same views and biases of the teachers. There is an important difference here, however, for the black students. The one large difference for black students in the causal link outlined above is that there is no relationship between the black fifth graders' perception of teachers' racial attitude and the teachers' reports of their racial It would appear that the black fifth graders have either desensitized themselves to cues of their teachers' racial views or the teachers' perceived behavior is not consistent with respect to their reported views. It may well be that the teachers may compensate in behavior for their true feelings with respect to racial integration. It is also interesting to note that white students tend to perceive those teachers as racially biased who report that blacks are not a proportionately greater discipline problem. Conversely, and more understandably, the black students are somewhat more likely to perceive the teachers' racial attitudes as biased if teachers report that they have a proportionately smaller discipline problem with the white fifth graders.

Turning to Tables 5-2a and -2b, we note that in schools with less prejudiced teachers there is more likely to be discussion of race in class. Also, for white fifth graders, there is a positive correlation (r=.39) between students perceptions of a teacher as unbiased and the frequency with which race is

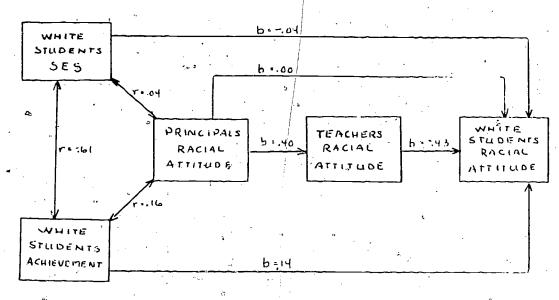
discussed in class. The corresponding correlation for black fifth graders is .02 indicating that black students do not link discussions of race with a positive perception of their teachers' racial views. This is consistent with the earlier finding that the determinants of a black fifth grader's perception of his or her teacher's racial attitude are different from those of a fifth grade white child. The suggestion here seems to be that black fifth graders may be perceiving some of the same racial cues as the whites, with respect to teachers' racial attitudes, yet their interpretation is different.

Turning to Figure 5-2b, the relationship between the teachers' self-reports, their racial attitudes, and whether or not teachers feel black students are performing at grade level is quite high (r = +.52). That is, those teachers whose self-reports reflect negative attitudes toward living in integrated neighborhoods, intermarriage, etc., also feel that their black students are not performing at grade level. Interestingly enough, when one examines the same correlation for the black population (Figure 5-2a) a somewhat similar, although considerably more attenuated, relationship (r = .28) still holds. That is, those teachers who report that they have negative attitudes toward integration, etc., are also more likely to feel that the white students are not performing up to grade level. One possible explanation for this rather consistent result is that the more prejudiced teachers may tend to be more demanding with respect to their students' performance than those teachers with more liberal views with respect to integration.

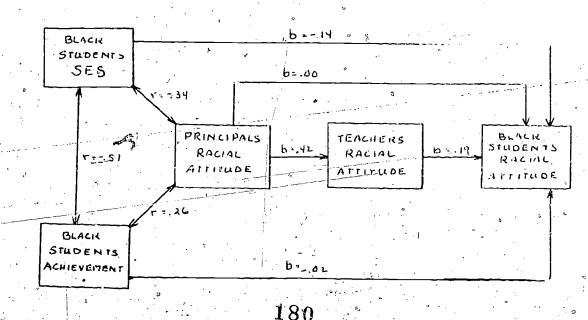
As reported in Chapter 3, both teachers' racial attitudes and principals' racial attitudes are correlated with the racial attitudes of white students. However, when the complete set of background variables is partialed out, the contact ions drop substantially. The path analysis permits a more detailed acceptable of these relationships. In the context of the set of variables examined here achers' racial attitudes have the greatest direct effect on white students'

racial attitudes. Principals' racial attitudes have an indirect effect, working through teachers' racial attitudes.

Inspection of Figure 5-2b and Table 5-2b (white subgroup) indicates that for white fifth graders by far the greatest determinant of students' positive racial attitudes is the teachers' racial attitude (b = .43). That is, the more positive the teachers' self-reported attitude toward integration, the more positive the white fifth graders' attitude toward having black friends, etc. The rather complex relationships between some of the determinants of racial attitudes can be best understood if we take and diagram a segment of the larger model. Thus, for white students we have:



and for black students we have:



A comparison of the above two models suggests that although principals have essentially no direct effect on student racial attitudes, they have a relatively large indirect effect on the students' racial attitudes working through the Since this indirect effect of principals appears to be particularly important for white student racial attitudes, it would seem necessary to further explore the correlates of the principal's racial attitude. The diagrams for black and white students above suggest that the SES of white students has little to do with principal's racial attitude while the SES of a school's black students does. That is, the higher the SES of the black students, the more likely the principal is to have a positive racial attitude. Similarly, the higher the black student achievement, the more likely the principal will be to have a positive racial attitude. Whether or not the SES and achievement of black students can be considered determinants or simply correlates (as we have depicted them) of principal's racial attitude, the important point here is that whatever may change the principal's attitude will in turn influence the teachers' and finally the child's attitude. At least that particular causal chain seems to provide a reasonable fit to the data for white fifth graders.

Consistent with our earlier discussion of the determinants of black fifth graders' perception of the teachers' racial attitude, there also seems to be little in the present model to explain black fifth graders' racial attitudes.

Teachers' prejudice seems to have a moderate inverse effect on black student racial attitudes. That is, black fifth graders who would like to have friends of another race tend to have teachers with negative racial attitudes. What does appear to be clear here is that black and white fifth grade students do not seem to react in the same way to their teachers' self-reported attitudes. This result appears to be consistent with the fact pointed out earlier, that black

and white students in the fifth grade, for the most part, do not have similar perceptions of their teachers' racial attitudes.

However, one determinant of racial attitudes that seems to have a consistent and a rather interesting effect on students' racial attitudes is the students' self-perceptions. Regardless of whether students are black or white, the more positive their feelings about themselves, the <u>less</u> likely they are to wish to have friends of another race. This relationship is considerably stronger for black than for white students (-.28 vs. -.13), and may be simply an expression of black self-awareness. The effect of whether or not black students "perform up to standards" also has an impact on white racial views. That is, the more likely it is that black students are perceived as not meeting standards (by the teachers) the more negative the white fifth graders' racial attitudes. Interestingly enough, black fifth graders also are more likely to wish "to have more friends of another race" if that race is performing up to the teacher's expectations.

The reader will note that for the white sample, there are three indicators of racial attitudes: "would you like more friends of a different race" (y_{10}) , "are you afraid of teachers of a different race" (y_{11}) , and the question of whether..."color has anything to do with smartness" (y_{12}) . The three indicators did cluster somewhat for whites, but there was little interrelationship for black students. This appears to indicate that for black students, whether or not they would like more friends of a different race has little to do with whether or not they feel color has anything to do with smartness (y_{12}) or whether they are "afraid" of a teacher of the opposite race (y_{11}) . For white students, whether or not they would like to have a friend of the opposite race is tied to some extent to whether or not they feel "color has nothing to do with smartness" and to a lesser extent, four of teachers of the opposite race. As with self-concept, it

appears that black students' racial attitudes are rather complex and possible compartmentalized.

Model II. Effects of Black-White SES and Achievement Differences, Length-of-Time Integrated, School Climate, and Teaching Style

The following analysis consider several variables that were not analyzed previously, but that have been pos to have a causal effect on racial attitude. They are, specifically, similarity or white and black students in SES and achievement and length-of-time integrated.

White fifth graders. As inspection of the one-way arrows in Figure 5-3a indicates, we have postulated that black-white SES differences are prior to achievement differences. Both SES and achievement differences are considered prior to (1) teacher-parent climate, (2) teaching style, and (3) white racial attitudes. Time integrated is prior to climate, teaching style, and white racial attitudes. Climate and teaching styles are prior only to white racial attitudes.

The invicators of SES and achievement were relatively reliable for difference scores as were the three achievement difference scores. The lowest reliability was for the number of siblings $(.62)^2 = .38$, and the highest was the achievement difference indicator, basic concepts $(.89)^2 = .79$. The standardized path coefficient indicating the effect of SES differences on achievement differences is relatively large, $b^* = .44$. However, more interesting relationships were found in the correlations between SES differences, achievement differences, and the length of time the school has been integrated. That is, the correlation between white-black SES differences and time integrated is r = .28, indicating that the longer the school is integrated the smaller the white-black SES differential.

For some items the coding of the scales was often in the reverse direction from what one might normally expect. Because of this, the reader may feel that the interpretation is not always considered with the sign of the path coefficient or correlation under study. The reader may satisfy himself as to the correctness of the interpretation by examining the atem scale codings in the appendix to Chapter 5.



There may be a selection factor operating. That is, either the high SES whites or the low SES blacks are moving to different schools. Another possibility is that schools with relatively homogeneous student populations integrated earlier. A similar but smaller relationship is found between achievement differences and length of time integrated (r = .15). The longer the school is integrated, the smaller the difference between black and white achievement. If one forgets the SES relationship, a "happy" interpretation of this would be that the longer blacks are in an integrated school, the more likely their achievement scores will approach that of the whites. However, considering the relationship between SES differences and achievement differences and length of integration, a more likely explanation is that SES differences mediate the relationship between achievement differences and time integrated.

Inspection of the determinants of climate as measured by warmth of clacher-parent contact indicates that, holding constant academic achievement, the greater the white-black SES difference, the less the warmth of teacher-parent contact. Conversely, the greater the white-black achievement differences, in the absence of SES differences, the greater the parent-teacher contact. In summary, one would have to say that white-black differences in SES are somewhat more important than achievement differences in influencing parent-teacher contact. This conclusion is justified on the basis of the larger path coefficient for SES differences (-.27 vs. .19) as well as the indirect effect of SES differences "working" through achievement differences. (See Table 5-3a).

The next most important determiner of climate is length-of-time integrated (path coefficient = -.29). That is, the longer the school is integrated, independent of both SES differences and achievement differences, the greater the warmth of openness of teacher-parent contact.

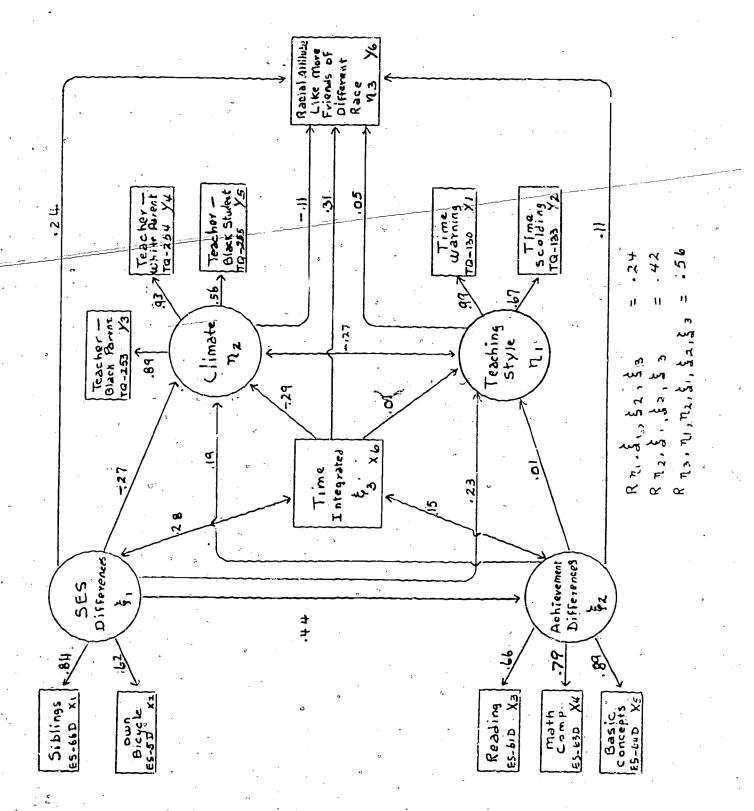


Figure 5-3a

Explanatory model for 'Would you like more friends of different race?"

Laste fifth graders

Table 5-3a

Direct and Indirect Effect for "Would You Like More Friends of a Different Race?"

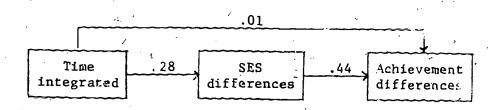
White Fifth Graders

Achievement Differences SES Differences .44 .44 Climate SES Differences 27 .08 19 Achievement Differences .19 .19 Teaching.Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes Nore Friends of Different Race	Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
Climate SES Differences27 .0819 Achievement Differences .19 .19 Time Integrated2929 Teaching.Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race	ρ.	Achievement Differen	ices	
Achievement Differences .19 .19 Time Integrated2929 Teaching.Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01	SES Differences	.44		.44
Achievement Differences .19 .19 Time Integrated2929 Teaching Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race		Climate		
Time Integrated2929 Teaching.Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race	SES Differences	27	.08	 19
Teaching.Style SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race	Achievement Differences	.19	:	.19
SES Differences .23 .00 .23 Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race	Time Integrated	29	· · · · · · · · · · · · · · · · · · ·	29
Achievement Differences .01 .01 Time Integrated .01 .01 Likes More Friends of Different Race	•	Teaching.Style	•	
Time Integrated .01 .01 Likes More Friends of Different Race	SES Differences	.23	.00	.23
Likes More Friends of Different Race	Achievement Differences	.01	s.	.01
	Time Integrated	.01		.01
	Likes	More Friends of Diffe	rent Race	•
SES Differences .24 .08 .32.	SES Differences	.24	.08	. 3,2,
Time Integrated .31 .03 .34	Time Integrated	.31	.03	.34
Achievement Differences .110209	Achievement Differences	.11	02	.09
learning Style .05	sea hing Style	.05		.05
1111	vilmate	1.1	•	11

Teaching style, as depicted by the ancient of time spent warning and scolding, is primarily determined by white-black SES differences. The greater the SES differences, the more time the teacher spends warning and scolding. Teaching style has a negative relationship with climate indicating that teachers who spend much of their time scolding tend to have less warm and open contacts with parents. Much of the variance in teaching style is unexplained in the present model (multiple correlation = .24) suggesting that it may be to a certain extent a personality trait that remains relatively unmodified by the characteristics of the particular environment.

The primary determinants of white racial attitude in order of importance are length-of-time integrated, white-black SES differences, climate, and achievement differences. That is, careful inspection of the relevant path coefficients leads to the following conclusions:

- (1) The longer the school is integrated, the better the white racial attitude. This important relationship does not appear to be spurious since SES and achievement differences were controlled. That is, even though length-of-time integrated is related to SES and achievement differences, as discussed above, when SES and achievement are controlled, length-of-time integrated remains the largest single direct effect on white racial attitudes. It also has some indirect effect mediated by climate (see Table 5-3a). Thus, the total positive effect of length of integration (.34) on white racial attitudes is the most important contributor to white racial attitudes.
- (2) The greater the white-black achievement differences, the less positive the white's racial attitude. Since results discussed earlier show that there is a relationship between white-black SES differences, length-of-time integrated, and achievement differences, an alternative submodel might be posed as follows:



The resulting path coefficients suggest that the length of time a school is integrated essentially affects achievement differences between blacks and whites only through its impact on SES composition of the school. That is, when one holds SES differences constant, the path coefficient of length-of-time integrated on achievement differences is essentially zero while the SES differences maintain their large impact on achievement differences. The apparent inability of integration to remove achievement differences, except through selective movement of various SES groups, should not be too suprising considering the comparativel short time that large scale school integration has been operating.

- (3) The more warm and open the teacher-parent contact, the better the white racial attitude. This result is even more encouraging since length of time integrated seems to lead to improvement in teacher-parent contact.
- (4) Although length-of-time integrated has the largest single effect on white racial attitudes, differences between black-white SES has a relatively large total negative effect on white racial attitudes (see Table 5-3a). That is, disparate black-white SES differences in integrated schools not only have a substantial direct negative effect on white racial attitudes, but it also has significant indirect effects due to its negative impact on both parent-teacher relations and achievement differences, both of which in turn have an effect on white racial attitudes.

In summary then, a school which could be characterized by having positive white racial attitudes at the fifth grade would in all probability have (1) been integrated for a relatively longer time, (2) smaller gaps between both white-black SES and achievement, particularly SES, and (3) relatively warm and open parent-teacher contacts. The encouraging finding here is that although white fifth grade racial attitudes are related to white-black SES and achievement differences, the most important determinant, independent of SES and achievement, is length of time integrated.

Black fifth graders. Inspection of Figure 5-3b and Table 5-3b indicates that the black pattern of path coefficients is similar to the white pattern with one major exception, the relationship between time integrated and whether or not black children would like more friends of a different race. Although the zeroorder correlation between length-of-time integrated and "lake more friends of a different race" is practically zero (r = .03), the path coefficient (b = -.21) indicates a significant negative relationship. That the zero-order correlation is in effect zero, although the explanatory variable takes a large negative weight in the causal equation, is classic evidence for a suppressor effect. Although the interpretation of any suppressor effect is usually very tenuous, a tentative hypothesis will be suggested here. In general, a suppressor variable subtracts out invalid variance from other explanatory variables with which it is highly correlated. Invalid variance may be understood to mean that variance in other explanatory varialles which is not correlated with the lependent In this instance, the length of time the black fifth grader has been in an integrated school is high' related to black-white SES differences. is, the longer the black fifth orduer has been in integrated schools, the greater the likelihood of smaller black-white SES differences. What appears to be happening here is that the portion of the black-white SES difference which is in turn related to length-of-time integrated is apparently invalid in explaining black fifth grade racial attitudes and is thus being subtracted out, as indicated by the large negative regression coefficient for length-of-time integrated. The question here is, what part of the SES differences or, more likely, the "trappings" of SES differences which cannot be expected to disappear with length-of-time

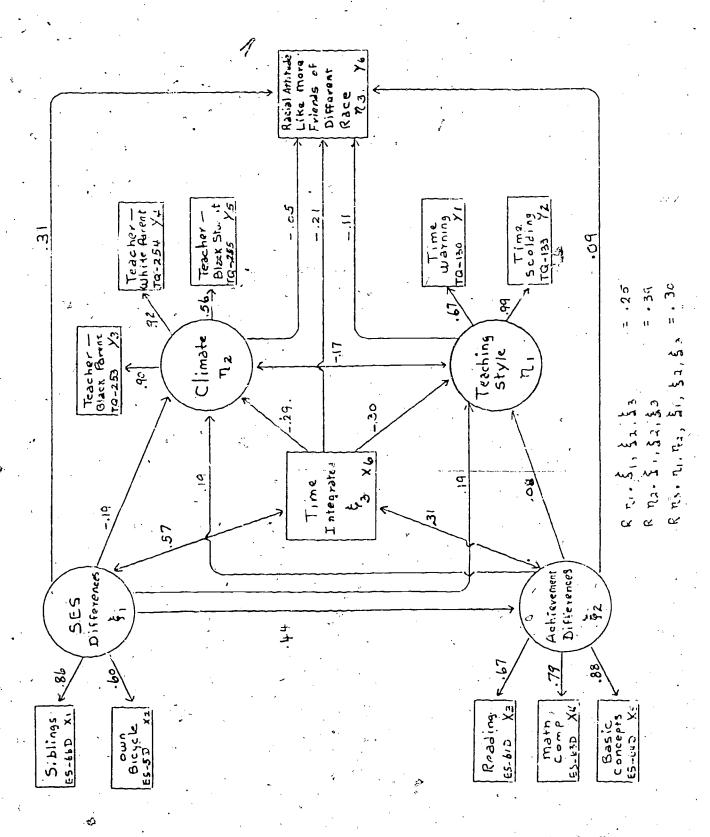


Fig. 5-3b. Explanatory Model for "Would You Like More Friends of Different Race?"

Black Fifth Graders

Table 5-3b

Direct and Indirect Effect for "Would You — e More Friends of Different Race?"

Black Fifth Graders

Causes		Direct Effects	Total Indire Effects	, ,
	Achieve	ment Differe	ences	
SES Differences		.44		.44
in the second of the second o	. 7	Climate		
SES Differences		19	.08	11
Achievement Differen	nces	.19	·	.19
Time Integrated		29		29
	Teac	ching Style		
SES Offerences	•	.19	.04	.23
Achievement Differer	ices	.08		.08
Time 'Integrated	,	30		30°
Li	kes More Frie	nds of Diffe	erent K_se	•
SES Differences		.31	.03	.34
Time Integrated	•	21	.04	17
Achievement Differen	ces	-09	02	.07
Teaching Style		11		7.11
Climate		~ . 05	• • • • • • • • • • • • • • • • • • •	,05
		-		9

integrated are we talking about here? It is these permanent differences in SES and their associated differences in life styles which are not "melted" out in integration and which then have a debilitating effect on black racial attitudes. It is quite possible that a significant part of what is described as black racial attitudes is simply the antagonism the "have nots" feel for the "haves." This antagonism, of course, is accentuated when SES differences are large.

With this one exception, i.e., "length-of-time integrated," the remainder of the structural relationships follows the same pattern as the white model previously discussed. That is, differences in SES and achievement have both direct and indirect effects, through parent-teacher relationships, on the black fifth graders' racial attitudes.

The focus on achievement differences and SES differences points up policy implications not revealed by the correlations between school conditions and outcomes presented in Chapter 3. Positive racial attitudes are directly affected by similarity of black and white students in SES, for both black and white students. For white students, achievement differences have a lesser but still evident direct effect. It has often been suggested that integration would work more smoothly if black and white students of similar background were combined in a school. One cannot support a policy of school assignment based on individual SES. However, school districts and draw desegregation plans to make the range of SES similar for black and white students. In particular, districts can avoid the practice, fairly often observed, of combining a predominantly low SES group of black students with a noticeably higher SES group of white students.

Model III. Time Integrated, Teaching Practices, and Racial Contact Practices and Determinants of Racial Attitudes in Elementary Schools

A somewhat different model incorporating length-of-time integrated is presented in Figure 5-3c and Table 5-3c. The primary outcome variable here is a racial attitude scale which includes both black and white responses, equally weighted in a given school. The objective of this particular model is to yield further information on the relative influence of length-of-time integrated as well as principal's racial attitude on such mediating and/or process variables as teacher-initiated race relations studies and teacher-initiated racial contact, which in their turn may affect student racial attitudes. This path analysis model was applied to a matrix of partial correlations where percent black, SES, and North-South geographic locations were partialed out.

It would appear that time integrated has a significant positive impact on both teacher-initiated race-relations studies and teacher-initiated racial contact. In comparison, principal's racial attitude, holding constant time integrated, has little or no effect on amount of racial contact among students and a relatively minor effect on teacher-initiated racial-relations studies.

The negative correlations between time integrated and principal's racial attitude indicate that the longer the students in the school have been integrated the better the principal's racial attitude. It should be remembered here that SES has been held constant in all these relations. It is particularly interesting to note that, holding other things constant, racial contact—as defined by working with and/or playing on a team with members of another race—is a far more important determiner of racial attitude at a given school (b = -.42) than are the more passive classroom racial discussions and interrace class activities that define the construct classroom race relations. It would seem that the active cooperation involved in teamwork activities is a powerful determiner of good race relations. The question may arise here about the relatively small impact the principal has on the various mediating and outcome variables. But one should remember that SES has been held constant and much of the principal's racial attitude is tied to SES differences, which in turn are nested under race.



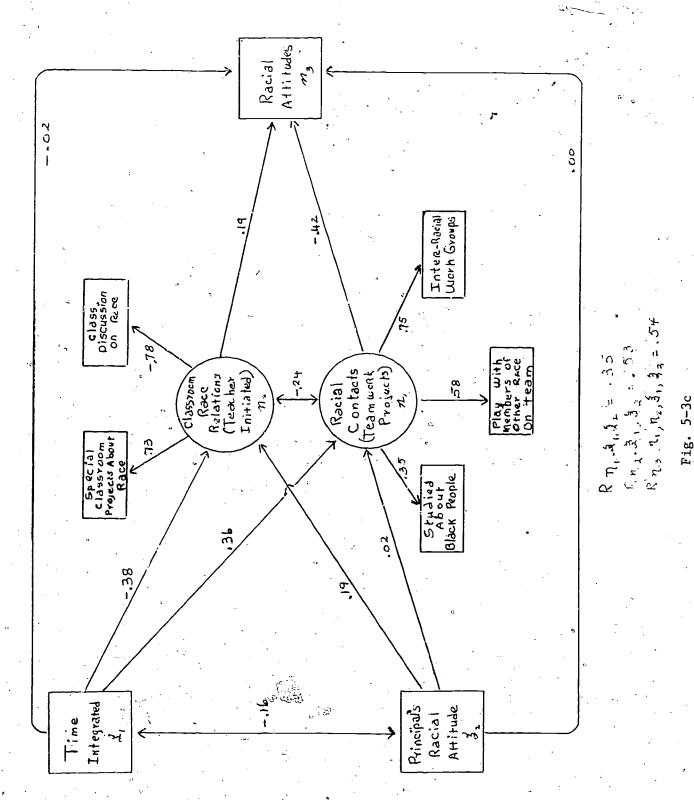


Fig. 5-3c. A model of effects of teaching practice on students' racial attitudes

Black and white fifth graders combined

Table 5-3c

Direct and Indirect Determinants of Fifth Grade Racial Attitudes

Black, and North-South Geographical Location

Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
Classroom Race	Relations (Teache	r Initiated)	
Time Integrated	38	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	~. 38
Principal's Racial Attitude	.19		.19
Racial Con	tacts (Teanwork P	rojects)	
Time Integrated	-36		.36
Principal's Racial Attitude	.02	,	.02
Ra	cial Attitudes	-	
Time Integrated	02	22	24
Principal's Racial Attitude	.00	.03	.03
Classroom Race Relations (Teacher-initiated)	.19		.19
Racial Contacts (Teamwork projects)	42	·	42

The importance of teaching methods designed to foster positive racial attitudes was emphasized in the correlational results reported in Chapter 3. The path analysis reported here suggests two hypotheses: (a) that the effect of race-relations projects and teamwork projects is direct and substantial, and (b) that the previously observed effect of length-of-time integrated is an indirect one, having a direct impact on teaching practices.

Fifth Grade Summary

The correlations reported in Chapter 3 identified teaching practices that emphasize race relations as the school characteristic most consistently related to race relations in elementary schools. The path analyses permit examination of these variables in the context of other important school characteristics.

White fifth graders' racial attitudes appear to be a function of (1) teachers' racial attitudes, (2) black-white SES and achievement differences, (3) length-of_time integrated, and (4) teaching practices that emphasize racial contact.

We have hypothesized and fitted a model and subject matter where the principal's attitude is antecedent to the teachers' attitudes. A reasonable argument might well be presented for teachers' affecting principal's attitude, or what is more likely, a feedback reciprocal mechanism. It is possible that both of these latter models would provide equally good fits to the data. The fact remains, however, that the principal has, within certain limits, control over the "types" of teachers he/she wishes to retain. Thus, if we are looking for the one manipulable variable which would have an impact on white fifth graders' racial attitudes, we should look at the principal.

The longer the school has been integrated, the better the white racial attitude. This important relationship does not appear to be spurious since SES and achievement differences were controlled. That is, even though length-of-time



integrated is related to black-white SES and achievement differences, when SES and achievement are controlled, time integrated has both a large direct as well as indirect effect on white racial attitudes. Thus, if SES differences are not vast, it would appear that harmonious racial attitudes may come about with the passage of time.

Although the school environment (principal and teacher attitudes) seemed to have little effect on black fifth graders' attitudes, differences between their SES and that of their white peers does have a considerable impact on their racial attitudes. The greater the disparity between black and white SES, the more negative the black racial attitude. In spite of the importance of this contextual effect, much of the variance in black fifth grade racial attitudes was unexplained by the model. Part of this unexplained variance may be due to (1) the fact that what happens in the school--that is, teacherstudent interaction-is a small part of the total input to the developmental process involved in racial attitudes for black students and (2) since the models were estimated separately for the two subpopulations, no estimates were obtained concerning the reciprocal causation between the two groups. That is, racial attitudes of white fifth graders, to a certain extent, affect racial attitudes of black students, which then feed back to white students, etc. The fact remains, however, that there is a large component of white student racial attitudes which seems to be a function of teacher racial attitudes. It appears that while the school situation may have considerable impact on the racial views of white fifth graders, black—fifth graders-may be primarily influenced by (1) the racial attitudes of other black people, (2) the social class of their white peers, and (3) other unmeasured variables outside the school system. One thing is clear and that is that black racial attitudes

are complex and appear to have a multicausal basis which is not necessarily centered in the school situation.

When the racial attitudes of white and black students are combined into an index of overall student racial attitude, the effect of teaching practices becomes especially evident. Projects requiring interracial teamwork and instruction that involves race relations have direct effects on the racial attitudes of students.

Causal Analysis of High School Data

Two different sets of structural models were constructed and analyzed for tenth grade data. The first considers SES, achievement, and the racial attitudes of teachers and principals as determinants of student racial attitudes. The second examines effects of school climate and teaching practice.

Model I. Effects of SES, Achievement, and Racial Attitudes of Teachers and Principals

Figures 5-4a and 5-4b present the structural models and their associated path coefficients, while Tables 5-4a and 5-4b present the direct and indirect effects of the hypothesized explanatory variables for the tenth grade black and white subsamples. The appendix to Chapter 5 presents a description of the items used in these structural models. Inspection of the SES factor for the two races (Figures 5-4a and 5-4b) indicates that father's occupation (X₁) is a much less reliable indicator of SES for black than for white students. Mother's education (X₂), however, is the best indicator of SES for both black and white subpopulations. The lack of relationship between father's occupation and mother's education for the black subsample is not a function of lack of variance since the two populations differ trivially with respect to variance. Some alternative explanations for this result are that some black tenth graders (1) give unreliable reports of their father's occupation,



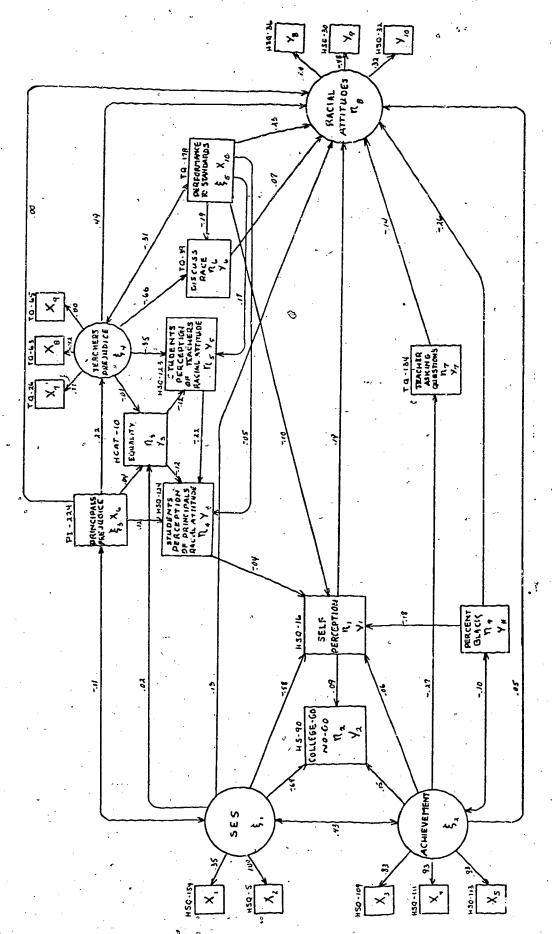


Fig. 5-4a. Black 10th grade structural model of racial attitudes

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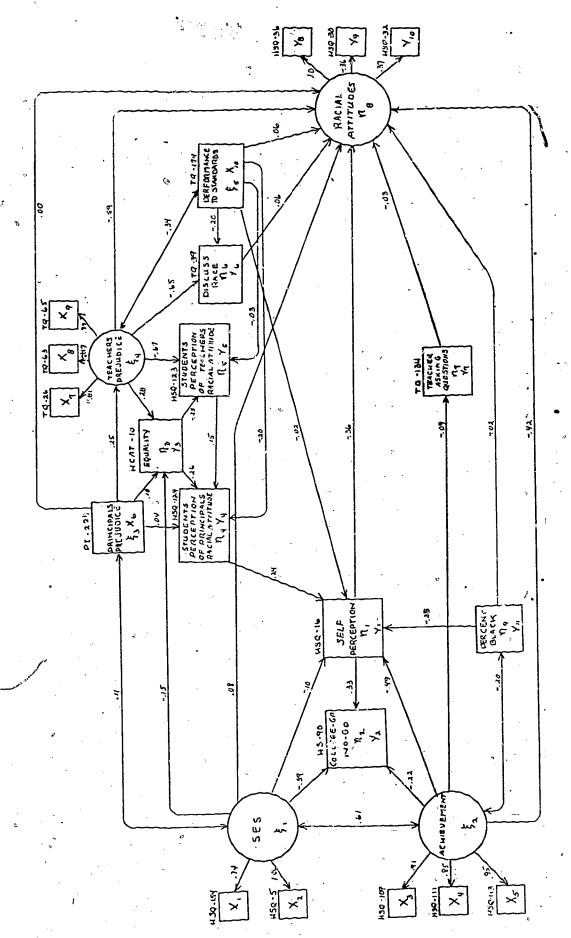


Fig. 5-4b. White 10th grade structural model of racial attitudes

.Table 5-4a

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 10th Grade)

Causes	Direct Effects,	Total Indirect Effects	Total Hypothesized Effects
	Self-Perception	(D = 50)	
ore		(86. – 7)	
SES	58	_	58 * * * *
Achievement	.06	~	•06
Principal's Prejudice	· · · · · · · · · · · · · · · · · · ·	00	00
Teacher's Prejudice	_	00	00
Performance to Standards	10	.00	
Equality		c.	10
Student's Perception of		.00	•00
Principal's Racial Attitude	04		04
Student's Perception of	*	•	04
Teacher's Racial Attitude	-	.01	.01
Percent Black	18	_	18
		•	
•	College-Go No-Go	(R = 60)	•
SES	•	1 .09)	•
	69	05	74
Achievement	.15	.01	.16
Principal's Prejudice	· •	00	-\00
Teacher's Prejudice	- -	00	00
Performance to Standards	* · · · · · · · · · · · · · · · · · · ·	01	01
Self-Perception	• • .09	_	.09
Equality	ે ⊷હે.	.00	. '
Student's Perception of	, <u>,</u>	•00	.00
Principal's Racial Attitude	-	00	00
Student's Perception of			-100
Teacher's Racial Attitude	•	.00	.00
Percent Black	·	02	02

Table 5-4a (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 10th Grade)

Causes	Direct - Effects	Total Indirect Effects	Total Hypothesized Effects
	Equality (R =	.04)	
SES .	,02		.02
Principal's Prejudice	.04	00	.02
Teacher's Prejudice	-,01	- ^	
	***		- ,~.01
Student's Perception o	of Principal's R	acial Attitud	In (P = 20)
SES			ie (K - 130.)
Principal's Prèjudice	-	00	·0Q
Teacher's Prejudice	.12	.01	.13
-	-	.08	.08
Performance to Standards Equality	 05	04	09
"Student's Perception of Teacher's Racial Attitude	·12	.03	09 22
Student's Perception	of Teacher's Rac	cial Attitude	
SES &		00	00
Principal's Prejudice	-	08	08
Teacher's Prejudice	~.35	.00	35
Performance to Standards	.17	•	.17
Equality	12		12
Di	scuss Race (R =	.63)	**************************************
Principal's Prejudice	6,		
Teacher's Prejudice	-	- 15	15
Performance to Standards	66	~	 66*

Table 5-4a (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(Black - 10th Grade)

Causes			Direct Effects	Total Indirect Effects	Total Hypothesized Effects
	Teach	er As	king Quest	ions (R = .27)	
Achdon				(K ,27)	• 6-
Achievement			27	·	27
			" "	~	*
	Rad	ial A	Attitudes (R = 58)	•
SES		7		.30/	•
		.	13	· · · /- · 11	24
Achievement			.05	~.05	.10
Principal's Prejudice			.00	00	.00
Teacher's Prejudice.		•	. 49	05	
Performance to Standards			.23	•	.44
Self-Perception		•		03	.20 `
		•	. 19		.19
Equality			- , " '	.00	.00
Student's Perception of	•			**************************************	٠
Principal's Racial Attitud	e ,		- -	01	-:01
Student's Perception of	٠. ٠	•	•		,
Teacher's Racial Attitude			·	.00	• 00
Discuss Race			07		. /
Teacher Asking Questions		·		-	.07
Percent Black		· •	14		14
rercent plack.		, ',	26	03	29

Table 5-4b

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

(White - 10th Grade)

Causes	•	Direct Effects	Total Indirect - Effects	Total Hypothesized Effects
	Self-I	Perception (1	R = .62)	· · · · · · · · · · · · · · · · · · ·
SES		10	; _;	10
Achievement	\$.	- 49		49
Principal's Prejudice	<u>.</u>	<i>₽</i> -••• <i>9</i> .	:01	·.01 \
Teacher's Prejudice		· · · · · · · · · · · · · · · · · · ·	01 01	-:01
Performance to Standards	,	02	05	 07
Equality	•	, · · · -	.05	.05
Student's Perception of Principal's Racial Attitude		.24	- ,	.24
Student's Perception of Teacher's Racial Attitude		n	• • • • • • • • • • • • • • • • • • • •	.04
Percent Black	,	28	-	28
				20
<u>.</u>	oll e ge	-Go No-Go (R = .76) ,	
SES		 39	04	43
Achievement	j	22	16	38
Principal's Prejudice	e	_	.00	.00 '-
Teacher's Prejudice		<u>-</u>	00	00
Performance to Standards		- .	02 -	02
Self-Perception	-	.33		.33
Equality		. -	.02	.02
Student's Perception of Principal's Racial Attitude		- .	.08	:08
Student's Perception of Teacher's Racial Attitude		-, -		*
Percent Black	•	<u>\.</u> .	.01 09	.01
u)	,	•	. •UJ	09

Table 5-4b (Continued)

Direct and Indirect Effects on Dependent Variables by Hypothesized Causes

	(White	·	10th	Grade)
•	,			Orage)

Causes	Total ect Indirect ects Effects	Total Hypothe ed Eff
1	Equality $(R = .34)$	
SES	15 _	 15
Principal's Prejudice	.10°	·
«Teacher's Prejudice	.28	.17
/ n	d ·	.28
Student's Perception of	Principal's Racial Attit	ude (R = .30)
SES	03	03
Principal's Prejudice	.04 .01	.05
Teacher's Prejudice	04	04
Performance to Standards	2000	2 0
Equality	.2604	.22
Student's Perception of Teacher's Racial Attitude	.15	.15
Student's Perception of	Teacher's Racial Attitud	e (R = .77)
SES	04	.04
Principal's Prejudice	21	21
Teacher's Prejudice	6707	74
Performance to Standards	03	03
Equality	25	25
Disc	cuss Race (R = .61)	
Principal's Prejudice	16	16
Teacher's Prejudice	65	65
Performance to Standards	20	20

Table 5-4b (Continued)

Direct and Indirect Effects on Dependent Variables _____by_Hypothesized—Causes

(White - 10th Grade)

Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects	
Teacher	Anking Question	ıs (R = .09)		
Achievement	09 "	-	09	
SES		.04	.12	
Achievement	42	.18	24	
Principal's Prejudice	.00	00		
Teacher's Prejudice	5 9	04	.00	
Performance to Standards	.06	.01	63	
Self-Perception	3 6	.01	07 36	
Equality	· · · · · · · · · · · · · · · · · · ·	02	02	
Student's Perception of Principal's Racial Attitude		09	••	* &
Student's Perception of Teacher's Racial Attitude	· · · · · · · · · · · · · · · · · · ·		 09	
Discuss Race	•06	01	01	•
Teacher Asking Questions	•) (<u>-</u> -	.06	
Percent Black	03	-	03	
DIACK	_	.10	.10	o

(2) have fathers whose job status is not consistent with their educational level, and/or (3) have parents whose educational-occupational levels are more likely to be divergent than those of the white subpopulation.

The indicators of achievement for the two subpopulations are all relatively reliable, yet the pattern of the loadings is slightly different. That is, for black students the "best indicator" of achievement is a test of mathematical computation, while test cionce and reading material are the best indicators of white achievement. ossible that for some black tenth graders, performance on the mathematics test may require a certain amount of reading skill as well as some science knowledge. That is, depending on what achievement level an individual is operating at, tests with the same names may be measuring somewhat different skills. What is more interesting, however, is the considerably lower relationship between SES and achievement for black (r = .43) than for white students (r = .61), yielding additional support to the notion that SES may have a somewhat different meaning for black students. That is, SES for black students demonstrated a slightly different loading pattern (internal consistency). Inspection of its external relationship with achievement and self-perception (e.g., see Figs. 5-4a and 5-4b) indicates that these external relationships also differ both in level and pattern. Black tenth graders' SES, unlike that of white tenth graders, is highly related to their academic self-perception (y1). That is, black students characterized by high SES, tend to perceive themselves as having "good school abilities," yet their achievement, as measured by tests, is relatively unrelated to their self-perception of their school abilities. Conversely, for white students, academic self-perception is highly related to their achievement scores and only trivially related to their socioeconomic status. Similarly to academic self-perception, whether or not black students intend to attend college is primarily determined by their SES, while for white students, SES is not quite so important. For white students, their relative achievement has a direct effect on



going to college as well as a relatively large indirect effect mediated by academic self-perception. That is, the direct effect = .22 and the indirect effect of achievement on college-going for whites is $(-.49) \times (.33) = -.16$, yielding a total hypothesized effect of (-.22) + (-.16) = -.38. It is possible that, for those black students who attend integrated schools, the higher their socioeconomic status the are likely the black tenth grader is to pursue the goals of the

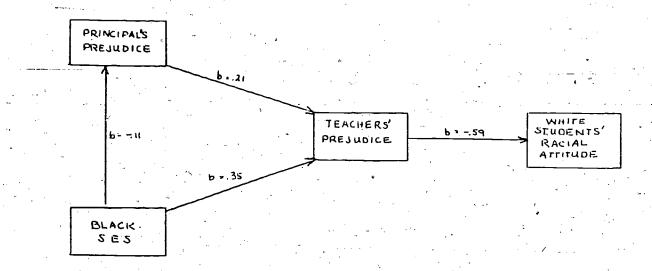
ass, in this case, planning to go to college. It would seem reasonable to expect that this assimilation by blacks of what has been white SES-related goals (e.g., going to college) may well be a by-product or at least a goal encouraged by attending desegregated schools.

Unlike the case in elementary schools, teachers' prejudice is only moderately related to principal's prejudice. Teachers' prejudice is, however, significantly related (r = .37) to SES of the black tenth graders. That is, the higher the black students' SES, the more positive t eacher racial attitude. This is similar to the fifth grade results, with the eption that tenth grade black socioeconomic status only seems to affect the teachers and not both the teacher and the principal, as in the fifth grade. It may that the principals in the high school have a comparatively larger administrative role than the fifth grade principals, and their contact with students of either race may be minimal. no indication that the high school principals are any more or less racially biased than their primary school counterparts since their mean responses to the prejudice item are almost identical for the two groups of principals. It would seem that, wina ever the tenth grade principal's reported racial attitude, it is not so signifightly related to the SES of the black students (unlike in the fifth grade) and farthermore, that students, black or white, appear to have few ideas as to what

their principal's racial attitudes are, as indicated by the small path coefficients in Figures 5-4a and 5-4b.

Similar to the case in fifth grade, tenth grade white students' perceptions of their teachers' racial attitudes are highly congruent with the teachers' reported racial attitudes. In schools in which teachers report negative racial attitudes, white students perceive teachers' attitudes as indeed being racially biased. Unlike the black fifth graders, black tenth graders do perceive teachers' attitudes as racially biased, when teachers report negative attitudes, although his relationship is considerably less strong for blacks than whites. It would appear that black and white tenth graders are much more likely to perceive the same racial cues and to respond similarly to them than are black and white fifth graders.

Inspection of the construct racial attitude in Figures 5-4a and 5-4b indicates that to be black and white tenth graders, the item concerning whether or not one would "the more friends of a different race" (y₈) is by far the most reliable indicate of racial attitudes. Consistent with the results in the fifth grade, the largest determinant of white racial attitudes is the teachers' racial attitudes. That is, teachers characterized by negative racial attitudes tend to have white students who are less likely to report that they want more friends of a different race. The blacks have just the opposite reaction. The greater the lackers' racial biases, the more likely the blacks would like to have a frience is different race. This finding is essentially a replication of the fifth the results. A summary of the teachers' component of white tenth grade students' racial attitudes might be diagrammed as follows:



As was found in the fifth grade, teachers' prejudice, which has a large negative impact on white tenth grade students' racial attitudes, seems to be a function of principal's prejudice and to a greater extent the socioeconomic status of the black tenth graders. Correlation between principal's racial prejudice and black SES was relatively trivial (r = -.11), as was the correlation between principal's prejudice and black achievement (r = .07). The fact, however, that black SES did have a significant positive relation—ship with teachers' racial attitude (b = .35), while black achievement did not (r = .01), is also an interesting difference from the fifth grade findings. More particularly, at the tenth grade it is possible that black SES rather than black achievement is the more significant component of teachers' attitudes, since behavior or discipline problems may be tied more directly to SES level. Certainly discipline problems may be more difficult to cope with at the tenth grade than at the fifth grade levels.

Consistent with the fifth grade findings is the fact that teachers with a negative racial attitude tend to feel that neither racial group, black or white, is performing to standard. That is, teachers reporting more conservative racial views tend to be more critical of academic performance in

general. Also similarly to the fifth grade, the teachers reporting more positive racial attitudes tend to discuss race more frequently in class. It is interesting to note that there is a tendency for teachers to discuss race if they perceive either group as not performing to standard. This seems to reflect a willingness on the part of teachers to discuss race, irrespective of the racial attitudes of the teachers, if the two groups differ substantially on whether or not they perform to standard.

White students' self-perception of their academic abilities ()1, holding constant their SES and tested achievement, is negatively related to their racial attitudes. That is, those white tenth graders whose reported academic self-concept is higher than warranted, either by their SES or tested ability, are less likely to want to have a friend of another race. It is possible that, for this group of individuals, the maintenance of their self-concept (academic, in this case) depends to a certain extent on the exclusion of others who are of a different race. Conversely, blacks with positive academic self-concepts tend to have positive racial attitudes.

In high schools in which white tenth graders have high achievement scores they also tend to have positive racial attitudes (b = -.42). Black tenth graders, however, show no relationship between achievement and racial attitudes. It would seem that, although teachers' racial attitudes have the largest single impact on white tenth graders' racial attitudes, their effect seems to be localized among the less well-achieving whites.

The greater the percentage of black students, the better the black tenth graders' racial attitudes, but for white tenth graders, the same relation hip is essentially zero.

These analyses reinforce the correlational findings, reported in Chapter - indicating that teachers' racial attitude has a direct effect on white



students' racial attitude. Moreover, both black and white students perceive the teachers' attitudes with considerable accuracy. Of the school characteristics observed here, this variable had the major impact. The analyses in the following section examine other variables that appeared important in the correlational results: teaching practices, curriculum, and school climate.

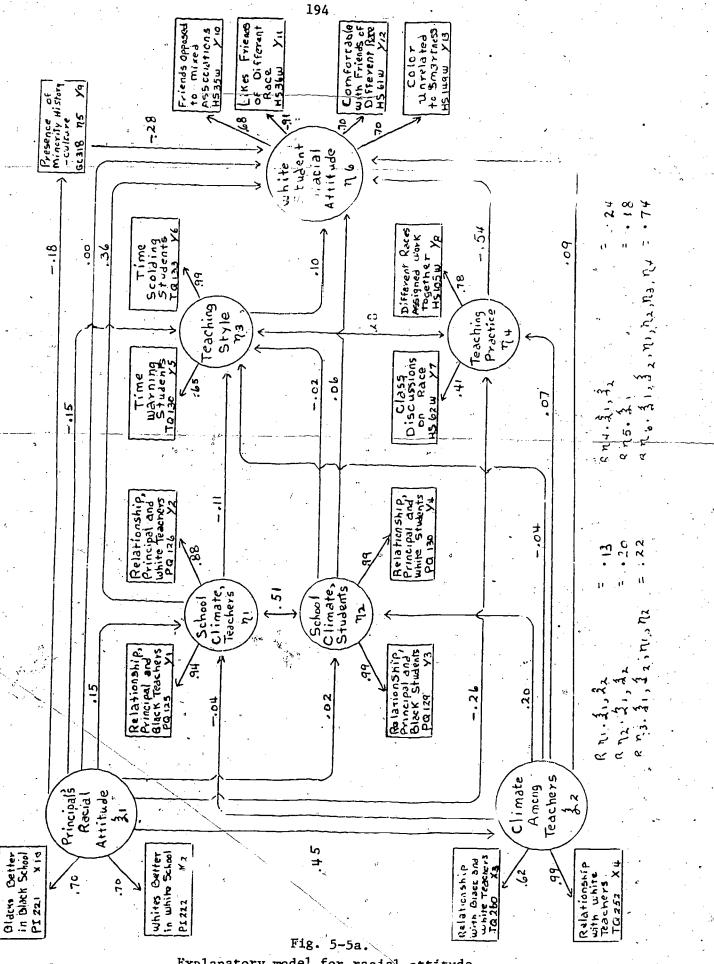
Model II. Effects of School Climate and Teaching Practice

The analysis described in this section explored a somewhat different set of process variables than the one previously reported. Specifically, it considered several aspects of school climate, teaching style, and teaching practice.

White tenth graders. Figure 5-5a and Table 5-5a present the results of the analysis for white tenth graders. This analysis was carried out on a matrix of partial correlation coefficients where the effects of SES were removed from all correlations. It is interesting to note that though the principal's racial attitude has a significant impact on the racial climate (b* = .45) among teachers, his or her racial attitude (..e., the principal's self-reported racial attitude) has little or no effect on his or her relationship with either students or teachers.

More importantly, principals who report that "black and whites are better off in mixed schools" tend to have schools whose teaching practices do encourage class discussions on race and/or have different races assigned work together. This teaching practice (encouraging class discussions on race, etc.) is by far the largest determinant of white students' racial attitudes. That is, apparently the more openness with respect to class discussions on race and/or interracial work assignments, the better the white student racial attitude. In this model there appears to be a strong suggestion that the absence or presence of harmonious interrelationships between principals and their black or white teachers also has a considerable effect (b* = .36) on white students' racial attitudes. It is also gratifying to find that the presence of minority history classes has a positive





Explanatory model for racial attitude

213

White Tenth Graders

Table 5-5a

and Indirect Effe

Racia At ude

White Tenth Graders .

Causes	Direct Effects	Total 'Indirect Effects	Total llypothesized Effects .
Schoo	1 Climate, Teach	er	
Principal's Racial Attitude	.15,	02	.13
Climate among Teachers	04		04
School School	Climate, Studen	ts	
Principal's Racial Attitude	.02	.09	.11
Climate among Teachers	.20		.20
<u>T</u> e	eaching Style		
Principal's Racial Attitude	15	03	18
Climate among Teachers	04	00	04
School Glimate, Teachers	11		11
School Climate, Students	02		02
y <u>Te</u> z	ching Práctice		
Principal's Racial Attitude	26	.03	23
Climate among Teachers	.07		07
Min	ority History	:	· •
Principal's Racial Attitude	18		18

Table 5-5a

(Continued)

Direct and Indirect Effect for Racial Attitude White Tenth Graders

Causes	Direct Effects	Total Indirect Effects	Total Hypothesized Effects
White Studer	nt Racial Att	itude	· •
Principal's Racial Attitude	.00	.26	.26
Climate among Teachers	.09	04	.05 <u>.</u>
School Climate, Teachers	.36	01	.35
School Climate, Students	.06	00	.06
Teaching Style	.10		.10
Teaching Practice	54		54
Minority History	28		28

effect on white students' racial attitudes. The absence or presence of minority history classes is also, to a certain extent, a function of the principal's racial attitude (b = .18).

As in the fifth grade analysis, it would seem that the principal's attitude is quite important in maintaining good student racial attitudes. It (principal's attitude) has a quite large total indirect effect on white students' racial attitudes. That is, principal's racial attitudes primarily affect white students through their impact on teaching practices and to a lesser extent, their impact on (1) school climate, (2) teaching style, and (3) presence or absence of minority culture classes. All of the above behaviors in turn have significant effects on the white students' racial attitudes. The correlational outcomes reported in Chapter 4 indicate that all of these variables are related to white students' racial attitudes. The path analysis suggests that the impact of the principals' racial attitudes is an indirect one, influencing attitude through its influence on teaching and school climate.

Black tenth graders. Figure 5-5b and Table 5-5b present a structural model for black tenth graders. Since the earlier results suggest that using the same model for both black and white students often leaves much of the variance in black racial attitudes unexplained, a different structural model was posed for the black students. Inspection of Figure 5-5b indicates that student-teacher climate, conflict over discipline, and inequality of influence are all considered prior to school efficacy, which in turn is considered prior to black racial attitudes. As in the white model, SES was partialed out of the variables. Inspection of the path coefficients indicates that black racial attitudes are almost entirely determined by school fairness (b* = -.86). The one exception to this is the significant path coefficient from unequal influence to black racial attitudes (b* = -.31). The negative path coefficient from school fairness to black racial attitudes means that the more frequently a black student is "punished for

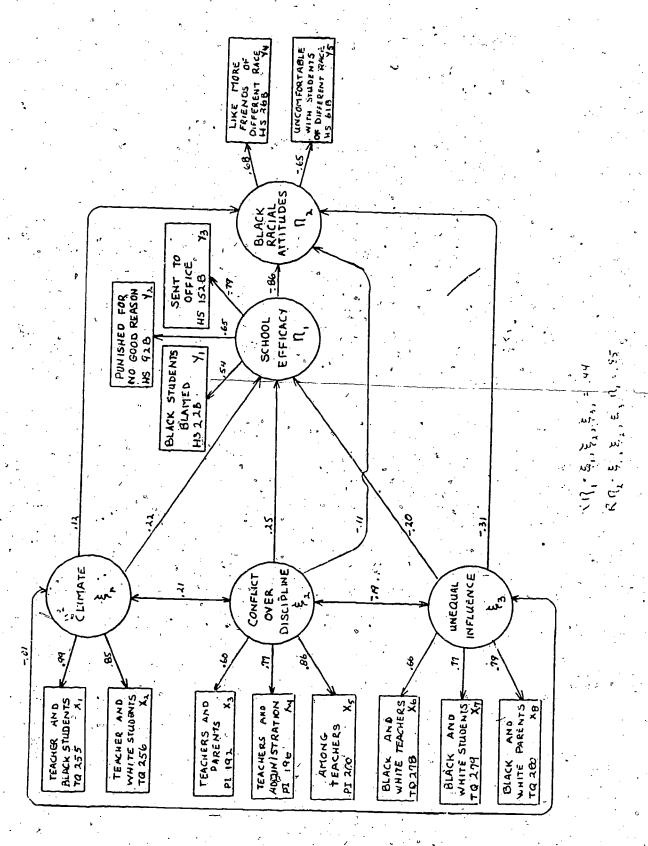


Fig. 5-5b. Explanatory model for racial attitude

Black tenth graders

Table 5-5b.

Direct and Indirect Effects of Racial Attitude Black Tenth Graders

Causes	Direct Effects	Total Indirect Hyp Effects	Total pothesized Effects
School	Efficacy		
Climate	.22	,	.22
Conflict over Discipline	.25	• 1.	.25
Unequal Influence	20		20
Black Rac	ial Attitude		7
Climate	.12	i9	07
Conflict over Discipline	11	22	33
Unequal Incluence	31	.17	14
School Efficacy	86	- 10 mg	86

no good reason," etc., the more negative his racial attitude. It is possible that a number of these punishable infractions have to do with interracial disputes; hence, the very large path coefficient.

What is more interesting, however, is the effect of inequality of influence on both school fairness and black racial attitude. The negative path coefficient from inequality of influence to school efficacy indicates that some black students are more likely to perceive themselves as being unfairly treated in just those situations where the teacher is apt to also feel that blacks and whites indeed do have unequal status. However, holding school fairness constant, those schools where the teachers report giving unequal influence to blacks and whites also tend to have more negative black racial attitudes.

The negative correlation (r = -.19) between unequal influence being accorded blacks and whites and conflict over discipline suggests that there is a slight tendency for those schools which report applying the same standards to blacks and whites to also have somewhat less administrative conflict over discipline.

Teacher-student climate and conflict over discipline are positively correlated, indicating that schools which tend to report harmonious teacher-student relationships also have less teacher-parent, teacher-administration, and/or interteacher conflict over the administration of discipline. Both good teacher-student relationships and lack of conflict over discipline have significant positive effects on school efficacy but little or no direct effect on black racial attitudes.

Whatever the paradoxes of the above results, it is clear that black students' self-perception of whether they have been wrongfully and/or too frequently punished is highly related to their racial attitudes. This relationship probably stems from two sources. First, the source of punishment in the school situation is more likely to be a member of the white race, whether a teacher or administrator, and secondly, at least some of

the disciplinary actions may result from interracial disputes among the students. In short, punishment for actions taken against members of the opposite race for slights, whether real or imagined, may simply reinforce the attitudes which lead to the original punishable behavior.

Summary

In the models portrayed in Figures 5-2 and 5-4, on the whole, there are more similarities than differences between the fifth grade and tenth grade analysis. For both grade levels, the one single variable which seems to have the largest impact on students' racial attitudes is teachers' racial attitudes. At the fifth grade, the teachers' racial attitude is significantly related to principal's racial attitude, and the SES and achievement of the black students. In the tenth grade, teachers' racial attitude is somewhat related to principal's racial attitude, but more strongly related to the black students' SES. It is more interesting to note that in the tenth grade (unlike the fifth grade) black achievement is not related to teachers' racial attitude. This "centering" of teachers' attitude on just black SES rather than achievement and SES could result from what is commonly known as SES "carriers." That is, the incorporations by tenth grade black students of SES-related variables such as middle class values and their resulting behaviors seem to be more important in determining the attitudes of the teachers toward blacks than their achievement. In particular, behavior and discipline problems, which may be SES-related, could assume far greater importance at the tenth grade than the fifth grade. The tenth grade results, however, do provide some encouraging data with respect to some of the popularly held views concerning integration. For example, in the case of the so-called "tipping point," it was found that the greater the perdentage of blacks the more positive the black students' racial attitude.



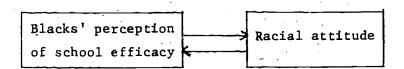
Similarly, the greater the percentage of blacks in the school, the more positive the black students' academic self-concept. White academic self-concept also becomes more positive as the percentage of blacks increases.

Although the relative level of integration (% black) has either no impact on racial attitude (whites) or a positive impact (blacks), the method of integration appears to affect the teachers' racial attitude, which in turn affects the white students' racial attitude. That is, for the case of fifth graders, if the black students are low SES and low achieving, the principals and teachers tend to have negative racial attitudes and, as a result of these negative racial attitudes, influence the white students negatively. However, achievement level of the black students seems to have comparatively little direct influence on the white students' racial attitudes per se (e.g., the path coefficient associated with black performance to standards and white racial attitudes = .16) but works primarily through the principals and teachers. At the tenth grade these relationships for the most part are replicated, except that black SES, and not achievement, is the primary determinant of teachers' racial attitude. Tenth grade black achievement has not only a comparatively minor influence on the tenth grade teachers' racial attitudes, but it also has a negligible direct effect on white students' racial attitudes. The structural models diagramed in Figure 5-5 offer further insight into racial attitudes of high school students. Although it would seem likely that an individual's racial attitude would have stabilized by the time he or she reaches the tenth grade, there is some evidence, particularly for white students, that certain school practices have a significant positive impact on their racial attitudes. It has also been shown that these positive school practices tend to be

macial attitudes. These teachers and school practices include openness of these discussions with respect to race, assignment of black and write students to work together the same task, and the in usion of black minerity classes in the periculum

it would appear that the causal model or white tenth grade racial stitudes is reasonably similar to that of a white fifth graders. That is, for mite tenth graders there is considerable evidence to suggest that a causal chain from principal to teacher to a udent prevails at the tenth grade as all as at the fifth grade level.

As in the fifth grade, many of the determinants of the racial attitude of black tenth graders are yet to be identified. The fact that school efficacy (as perceived by black students) is highly related to black tenth graders! racial attitudes appears to be more the result of an interactional hypothesis than a one-way cause. That is, the model appears to be:



What is needed to arrive at a mathematical solution to the above model is to find a set of variables which are related to school efficacy but not to racial attitudes and conversely another separate set of variables which is related to racial attitudes but not school efficacy. Unfortunately, such a set was not found, so the feedback loop remains only a hypothesis.

Discussion

The analysis resserted in this chapter were a exploratory effort to examine causal or section among variables that operate in school integration.

Questions of cause and street in the integration process are of great theoretical and practical important. They are too complex to be answered in any final way in this study. I want one's ability to answer causal questions are imposed by the correlational relational relationships to straight, by the severe difficulty of constructing theoretical models that are a equal a to the domain, and by the necessarily limited sampling and measurement possible in a single study. In view of these limits, the approach taken was to study a less patterns of causal relationship in some detail, and to formulate hypothems for more direct study. This discussion section summarizes conclusions that seem to have promise for future theoretical development and empirical study.

The racial attitudes of the black and white students in a school appear to be determined in systematically different ways. It was apparent in the analyses reported in literary 3 and 4 that school conditions are related in different ways to the smial attitudes of black and white students. This chapter indicates that those attitudes—measured at the school-mean level—are determined by different causal chains. Moreover, this study was much more successful at explaining the attitudes of white students than those of black students.

For elementary school students, the difference between white and black students' attitudes is shown initially by the finding that components of racial attitudes are structured differently. For white students, three items cluster



melieving that race has nothing to do with smeartness, and not being afraid of teachers of a different race. For black students these thems are not sufficiently interrelated to define a single construct.

The racial attitudes of teachers have a six and direct effect on those of white students. When teachers' racial attitudes and a school are favorable, so are those of white students. For black students are effect is smaller and in the opposite direction. A partial explanation the difference is that black students do not perceive teachers' racial attitudes as accurately as white students. It would appear that black and white students respond to different cues in the behavior of teachers. Improvement of teachers' racial attitudes may be expected to have a direct effect on those of white students, but unclear effects on those of black students.

Amount of time integrated has a positive effect on white students' racial attitudes, but a negative effect—whose mechanism is unclear—on those of black students. Teaching style has a positive effect on white students' racial attitudes (absence of scolding and warning leads to favorable attitudes). For both black and white students, racial attitudes are more positive when overall performance level is described by teachers as "up to standard," and when mean differences in socioeconomic background between black and white students are small.

Principals' racial attitudes have an indirect effect on the racial attitudes of white students. Principals' racial attitudes have a direct effect on the attitudes of teachers, which in turn influence the attitudes of students.

At the high school level, as at the elementary school level, teachers' racial attitudes have a strong direct effect on those of while the students, but a negative effect on those of black students. The self-extressed attitudes of

perceived with less accuracy black students. Teaching provides that emphasize race relations and the teaching of minority history was direct effects on white students' attitudes. As at the elementary school less, the racial attitudes of white students. The effect at his schools is most clearly exerted by way of an effect on teaching practices.

The racial attitudes of black high school students are affected by their reports of efficacy. This variable reflects both their perceptions of the fairness of the school to them and their personal feelings about school practices. Efficacy is affected by a positive social climate, by absence at conflict over discipline, and by equality of influence of black and white teachers, students, and parents.

In the effort to explain racial attitudes of black students, a variable that appears to have a direct effect at both the elementary and high school levels is self-perception. When black students in a school have more positive feelings about themselves, they tend to have less positive racial attitudes. This is another indication that for black students, the indicators that we have called "positive racial attitude" reflect different attitudes than for white students. Desiring more friends of a different race, feeling comformable with students of a different race, and seeking contact with students of a different race may indimedate lack of self-confidence and racial self-satisfaction, as well as positive attitudes toward the other race. In efforts to define desirable educational outcomes for black students, "positive racial attitudes" must receive much more detailed analysis and specification.

In the design of school programs, it is necessary to consider whether a school characteristic that is correlated with an outcome is in fact a cause of the outcome. With regard to white students, racial attitudes, the analyses

in this chapter support the hypothesis that school conditions have direct effects on student outcomes. Causal analysis, at both a theoretical and empirical level must remain tentative. It is not surprising that different outcomes for different races have different and complex patterns of causation. These was, however, encourage further investigations of school conditions as of educational outcomes. They give general support to the strategy of improving school conditions as a means for improving race relations.

Variable Identification Fig. 5-2a

	Student	Questionmaire
X .	ES66	Number children in the family (1-9)
X_2	ES5	Do who wha a bicycle (1*-2)
\mathbf{x}_3	ES63	Number correct: Subject on Main Computation
$X_{\mathcal{L}}$	ES61	Jumper correct: Subtest on Reading
· X.	ES64	Number correct: Subtest on Basic Concepts
Y	ES 46	Can you do things as well as most (1*-2)
Υ	ES58	Do you think you will go to college (1*-2)
Υ	ES 70	Do you think your principal likes black and white a students going to school together (1*-3)
¥ ₅	ES69 _.	Do you think your teacher likes black and white students going to achool together (1*-3)
8 Y	ES25	Woulr you like more friences of a different race (1*-2)
,	Principa	l Interview
x ₆	F1224	Amount of prejudice is exagnerated (1-4*)
	Teacher (Qu stionnaire
x ₇	TQ62	amount of prejudice is exaggerated (1-4*)
x ₈	TQ63	Like to live in an immegrated neighborhood)
x ₉	TQ65	Elamis and whites should not intermerry (1-4)
X ₁₀	<u> </u>	roportion of black students performing at g de level
Ү _З	TO177	Proportion of black students that are discipline problems (1*-4)
^Y 6	TC 39	How often do you have class discussion about race (1*-4)
Y 7	TC 134	How often do you ask questions (*-5)
Y ₉ ·	•	Percent black

Variable Identification. Eig. 5-2b

Student	Questionnaire

\mathbf{x}_{1}	ES66	Number of children in the family (1-9)
\mathbf{x}_2	ES5	Do you own a bicycle (1~-2)
х	ES 32	Does your family own mair home (1*-2)
X ₄	ES63	Like to live in an integrated neighborhood (1*-4)
x ₅	ES61	Number correct: Subtest on Reading
^x ₆	ES64	Number correct: Subtest on Basic Concepts
Y ₁	ES44°	Are you matisfied with yourself (1=-2)
^Y 2	ES46	Can you do things as well as most (1*-1)
^Ү 3	ES 7	Are you better or worse than most at secool work (1*-3)
Y 4	ES58	Do you think you will so to college (1*-2)
^Ү 6	ES 70	Do you think your principal likes black and white students going to achool together (1*-3)
^Y 7	ES69	Do you think wour meacher likes black and white students going to school together (1-1)
⁷ 10	ES25	Would you like more friends of a dillerent race (1*-2)
Y	ES29	Are you as waid of most meachers of a different race (1-2*)
Y ₁₂	ES73	Color has acthing to in with smartness (1-2*)
-		

Principal Interview

X₇ PI224 Amount of crajudice is exaggerated (1-6-)

Teacher Questionnai

^X 8	TQ62	Amount of prajuffice is anagyerated (-6-
х ₉	TQ63	Like to live in an integrated neighborrood (14-4)
X ₁₀	TQ65	Blacks and whites should not intermetery (1-4*)
-X ₁₁	TQ178	Proportion of white students performing at grade level (1:4-4)
¥5	TQ176	Proportion of white students that are discipline problems (1*-4)
^Ү 8	TQ39	How often do you have class discussion about race (1*-4)



Variable Identification. Fig. 5-2b (Continued)

Teacher Questionnaire - Continued

 Y_9 TQ134 How often do you ask questions (1*-5)

Y₁₃ Percent black

Variable Identification. Fig. 5-3a and 5-3b

	Student		
x_1	ES66D	Siblings (1-9*)	
x ₂ .	ES5D	Own bicycle (1*-2)	-
x ₃ ~	ES61D	Reading (# right)	÷
X ₄	ES63D	Math computation (# right)	
^Y 5	ES25	Would like more friends of a different race	(1*-2)
	Teacher		
Y 1	TQ1,30	Time spent warning students (1-5*)	
Y2	TQ133	Time spent scolding students (1-5*)	
^Ү з	TQ253	Relationship with black parents (1-9*)	:
Y ₄	TQ254	Relationship with white parents (1-9*)	N.
Y ₅ .	TQ255	Relationship with black students (1-9*)	

Variable Identification. Fig. 5-4a and 5-4b

Student Questionnaire

		. The contract of the contract of \mathcal{M} is the contract of \mathcal{M} in the contract of \mathcal{M}
X ₁	HSQ154	Father's occupation (7-75*)
x_2	HSQ5	Mother's education (1-5*)
. X ₃	HSQ109	Reading (number correct)
x ₄	HSQ111	Mathematics (number correct)
x ₅	HSQ113	Science (number correct)
`Y ₁	HSQ16	How do you rate yourself in school compared with those in your class (1*-5)
· Y ₂	HS90	Do you think you will go to college (1*-2)
· ^Y 3	HCAT10	How likely is it that students of both races will participate in certain school activities (1-3*)
Y ₄	H\$Q124	Do you think your principal likes blacks and whites going to the same school (1*-3)
^Y 5	HSQ123	Do you think most of your teachers like blacks and whites going to the same school (1*-3)
Y8.	#SQ36	Would friends think badly of you if you went some place after school with a student of a different race (1-2*)
^У 9	HSQ30	Are the three students you talk to most often of the same race (1-2*)
Y 10	HSQ32	Have you helped students of a different race with school work this year (1*-2)
	· 1	·

Principal Interview

The amount of prejudice against minority groups is highly exaggerated (1-4*)

Variable Identification. Fig. 5-4a and 5-4b (Continued)

		Teacher Que	estionnaire
x ₇		TQ26	Will students be better off in a school of their own race, or in a racially mixed school (1-2)
X ₈ .	e	TQ63	Would like to live in an integrated neighborhood (1*-4)
х ₉		TQ65	Blacks and whites should not intermarry (1-4*)
Ž10 '	:	TQ178	What proportion of students are performing at rade level (1*-4)
^Y 6		TQ39	How often do you have class discussions about mace (1*-4)
¥ ₇		TQ134	How often during the time you are teaching to you ask questions (1*-5)

^{*}Imdicates positive end of scale

Variable Identification. Fig. 5-5a

Principal Principal	Interview	
	and the second s	

x ₁	P1221	Black s	tudents	are	better	off	in	black	schools	(1)
\mathbf{x}_{2}		White s		• •	~4)					

Teacher Questionnaire

х ₃	TQ260	Your relationship with black and white teachers (1-9*)
^X 4	TQ252.	The relationship between you and the white teachers $(1-9*)$
^Ү 5	TQ130	Time spent warning students (1-5*)
Y 6	TQ133	Time spent scolding students (1-5*)

Principal Questionnaire

^Y ₁	PQ125	The	relationship	between	you	and	the	black	teachers	(1-9*)
Y 2			relationship							
^Ү з			relationship							
Y 4			relationship							

Student Questionnaire

^Y 7	HS62W 4.	There are class discussions on race (1*-4)
Y 8 '	HS 105W	There are assignments to work with someone of another race (1*-5)
Y ₁₀	HS35W	Do your friends think badly of association with those of another race (l=yes)
.,Y.,	HS36W	Would you like more friends of a different race (1=yes)
Y ₁₂	HS61W	Are you comfortable with friends of a different race (1*-4)
1 13 · ·	HS149W	Is color related to smartness (1-2*)

Counselor Questionnaire

Y ₉	CC318	Presence (1)	or absence	(2). of	minority	history/culture
		, .				

Variable Identification. Fig. 5-5b

	Teacher (Questionnaire
x ₁	TQ255	Your relationship with black parents (1-9*)
x ₂ ;	TQ256	Your relationship with white students (1-9*)
x ₆	TQ278	Unequal influence between black and white teachers $(1*-9)$
x ₇	TQ2 79	Unequal influence between black and white students (1*-9)
x ₈ .	TQ280	Unequal influence between black and white parents (1*-9)
	. <u>Principal</u>	Interview
x ₃	PI192	Conflict over discipline between teachers and parents (1-7*)
x ₄	PI196	Conflict over discipline between teachers and administration (1-7*)
x ₅	PI200	Conflict over discipline among teachers (1-7*)
. * .:	Student Q	<u>destionnaire</u>
Y ₁	HS22B	Black students blamed (l=yes, 2=no)
Y ₂	НS92В	Black students punished for no good reason (1-2*)
Y ₃	HS152B	Black students sent to office (1*-3)
Y ₄	нѕ36в	Would you like more friends of a different race (1=yes)
Y ₅	HS61B	Are you more comfortable with friends of a different race (1*-4)

Chapter 6

Comparisons of Outcomes Across Years

The survey conducted in 1974 included 48 elementary schools and 48 high schools that had been a part of the sample for the Southern Schools study. Therefore, on these 96 schools there were data available from 1972 as well as from 1974. Twenty-two elementary schools and twenty-one high schools were resurveyed in 1975. Comparisons between 1972 results and 1974 results and between 1974 and 1975 results are the focus of this chapter.

Comparisons of Outcomes in 1972 and 1974

There are several separate dimensions for making comparisons between 1972 and 1974 results. Each addresses a different set of policy questions and poses different interpretative tasks.

- 1. Overall comparisons of achievement and race relations. How does the level of achievement compare over the two-year period across all elementary and all secondary schools? How do race relations compare over the two-year period? Is there a general trend toward improvement or toward decline in these educational outcomes?
- 2. Stability. Is there a pattern of consistency in results for given schools over the two-year period? A possible kind of consistency would be indicated by positive correlations across schools: Schools strong in an area in a given year would tend to be strong in the same area two years later. This result would be expected if factors that influence educational outcomes for schools remain constant over the time period, or if the changes that occur

affect all schools in the same way. For example, if student composition, staffing pattern, and instructional practices remained about the same for all schools over the period, or if changes in these factors affected all schools equally, high correlations between outcomes across years would be expected. On the other hand, different kinds of consistency would lead to different expectations. If the tendency were for weak schools to improve while strong schools stay strong, the expected pattern would be an elevation of the overall mean, a decrease in the overall variance, and little or no correlation across years for a given outcome.

3. School effects across time. Are there school conditions measured at time 1 that forecast student outcomes at time 2? A positive answer to this question would be indicated if there are school process conditions measured in 1972 that are significantly related to student outcome in 1974. There are often efforts to improve school programs that are intended to have either a long-range effect that may not be apparent immediately (e.g., a new curriculum that has to go through a tryout period) or a continuing effect (e.g., a significant staff change). In these cases, policy questions center on the relationship between student outcomes and school characteristics other than student outcomes measured at an earlier period of time.

Overall Comparisons

Outcome measures were developed from the 1972 <u>Southern Schools</u> data base analogous to those developed for the 1974 data base. Tables 6-1 and 6-2 present overall comparisons on outcome measures for elementary and high schools respectively. The means and standard deviations in these tables are school-level statistics. The outcome variables are measured by the same items



Table 6-1

Fifth Grade

Comparison of Race Relations and Achievement Outcomes in 1972 and 1974 in 48 Southern Schools

		•	•		
	<u>N</u> 1	1972 Mean (SD)	1974 Mean (SD)	Change	t
Perceived School Racial Attitude 2			• • •		
Black Students	46	.58 (.37)	.66 (.35)	+.08	1.33
White Students	47	.72 (.27)	.79 (.30)	+.07	1.17
Student Racial Attitude Black Students	46	.96 (.30)	1.08 (.33)	+.12	2.00*
White Students	47	.66 (.41)	1.06 (.30)	+.40	5.71**
Achievement Sum Black Students	47	27.55 (4.00)		+.04	0.05
White Students	47	39.51 (3.97)	37.99 (4.44)	-1. 52	-2.41*

Attrition due to low student N's within schools

² Scale ranges from +2 (positive end) to -2 (negative end)

 $^{^{3}}$ Possible score range is 0 to 57 (Number of correct items)

Table 6-2

Tenth Grade

Comparison of Race Relations and Achievement Outcomes in 1972 and 1974 in 48 Southern Schools

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N ¹	1972 Mean (SD)	1974 , Mean (SD)	Change	t
Perceived School R Black Students	acíal Attitude ²	44	.07 (.38)	.08	+.01	0.13
White Students	. 2	47	.12	.21	+.09	1.41
Student Racial Att Black Students	itude *	44	.95 (.29)	.97 (.36)	+.02	0.31
White Students		47	.10 (~54)	.37	+.27	3.46**
Racial Contact 2 Black Students		44	.07 (.45)	.10 (.52	+.03	0.36
White Students School Fattrness ²	0	47	71 (.49)	47 (.44)	+.24	3.81**
Black Students		44	.18 (.41)	.13 (.41)	05	55
White Students		47	.57 (.35)	.47 (.38)	10	-1.49
Achievement Sum ³ Black Students		46	23.62 (3.86)	22.88 (5.91)	74	-0.77
White Students	4C; 2	48	35.74 (4.25)	34.59 (5.12)	-1.15	-1.37

Attrition due to low student N's within schools



² Scale ranges from +2 (positive end) to -2 (negative end)

³Possible score range is 0 to 57 (number of correct items)

and scoring procedure for the two years.

As Table 6-1 reveals, school means for racial attitudes of white fifth grade students improved significantly over the two-year period. The change was especially pronounced for white students. Their 1972 mean was substantially lower than that of black students. In 1974 it had increased until it was nearly equal to that of the black students, and the mean for black students was itself improving significantly. School mean achievement scores of white students decreased by 1.52 points, a small but statistically significant decrease.

Neither the higher scores in racial attitudes nor the lower scores in white student achievement in 1974 as compared to 1972 can be attributed to deseggegation, since there is no control group of segregated schools. Declining achievement test scores have been observed in many recent studies under a wide range of school conditions. For example, Harnischfeger and Wiley concluded from a 1975 review of research that "for the past decade, nearly all reported test data show declines from grade 5 onwards" (p. 69). Bracken presented detailed results from statewide testing studies. He concluded that achievement is apparently falling throughout the country, and that the phenomenon is not limited to communities where there has been turmoil surrounding education in the past few years.

There are no national statistics to determine whether the improvements in attitudes of white students observed in the present study are paralleled by similar trends in the nation. From an educational viewpoint, the most profitable focus would appear to be on particular school conditions that are associated with favorable educational outcomes. This is the focus of the analyses presented in Chapters 3 and 4 of this report.



High school results (Table 6-2) also show a significant improvement in the racial attitudes of white students. The racial attitudes of black students were already high in 1972 and improved slightly but not significantly in 1974. Similarly, the interracial contact reported by white students increased significantly, while that for black students remained about the same. Finally, there was a significant improvement in the school's racial attitude as perceived by white students.

Since the 1972 and 1974 samples are of different student groups, it is possible that the differences in outcomes are a result of changes in school population. There was no significant difference across schools in racial composition or in measured SES. It is possible, however, that white students with negative racial attitudes were more likely to have left the school districts than those with positive attitudes. It is also possible that families of higher achieving students have differentially left the school district. Data were unavailable to test either hypothesis.

Figure 6-1 is a scatterplot of 1972 versus 1974 measures of white students' racial attitude in 47 elementary schools. The figure reveals several additional aspects of the attitude changes. Lines have been drawn at .66 on both dimensions, representing the mean value for all schools in 1972. In 1972, 26 schools, or 55 percent, had school means below this overall average. In 1974, only three schools, or 6.4 percent, had school means below the overall average for 1972. Twenty-three of the twenty-six schools that fell below .66 in 1972 had scores above that level in 1974.

Figure 6-1 also suggests a tendency for weak schools to improve. Strong schools remained strong relative to the 1972 mean, but did not retain superiority as compared to weaker schools. This tendency is shown more clearly in figure 6-2, which plots gain against initial 1972 performance on the same variable. The



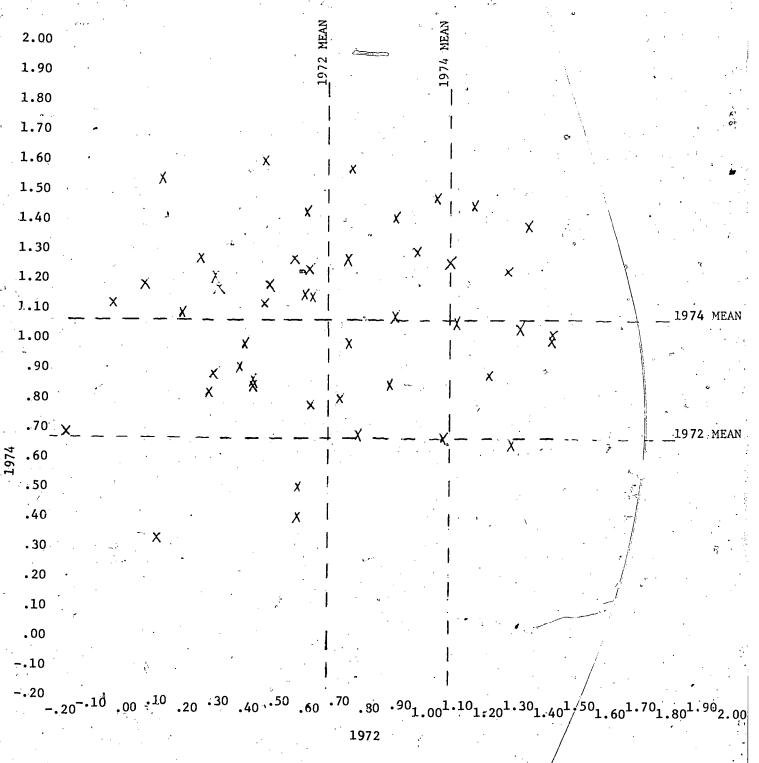


Fig. 6-1. Plot of the 1972-by-1974 school scores for fifth grade white students' personal racial attitudes. (Southern subsample, N = 47 (chools)

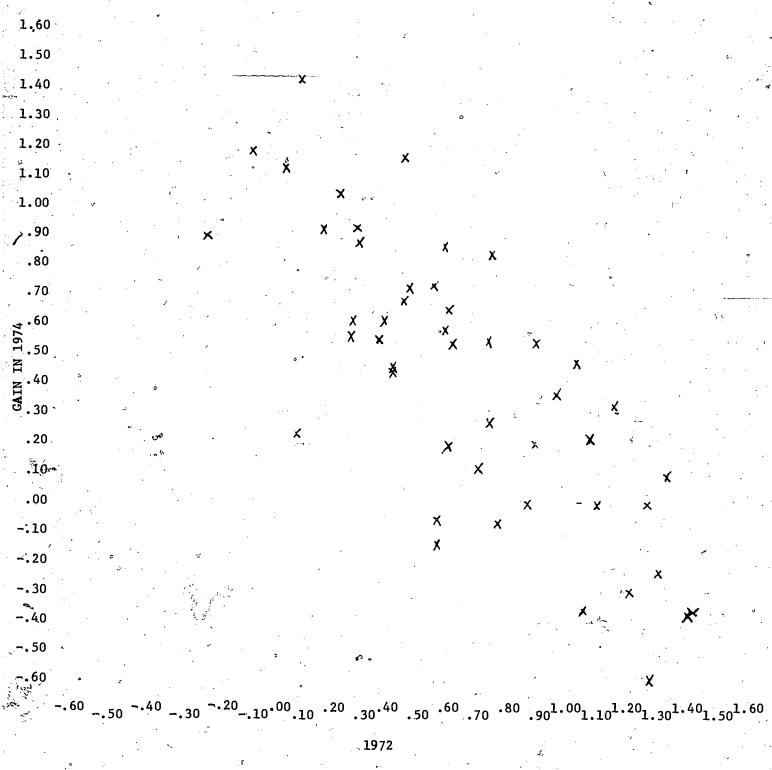
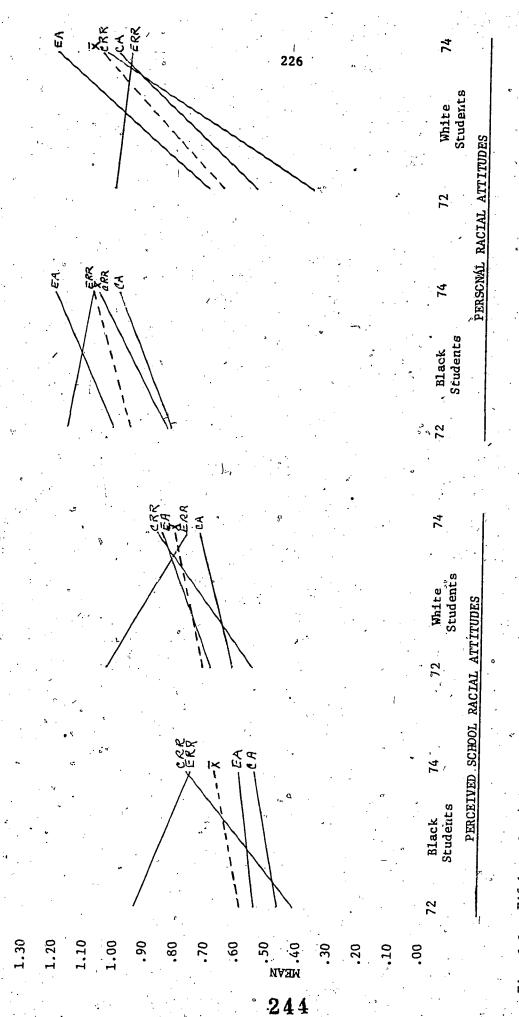


Fig. 6.2. The plot of 1972 school scores by 1974 gain for fifth grade white students' personal racial attitudes. (Southern subsample, N = 47 schools)

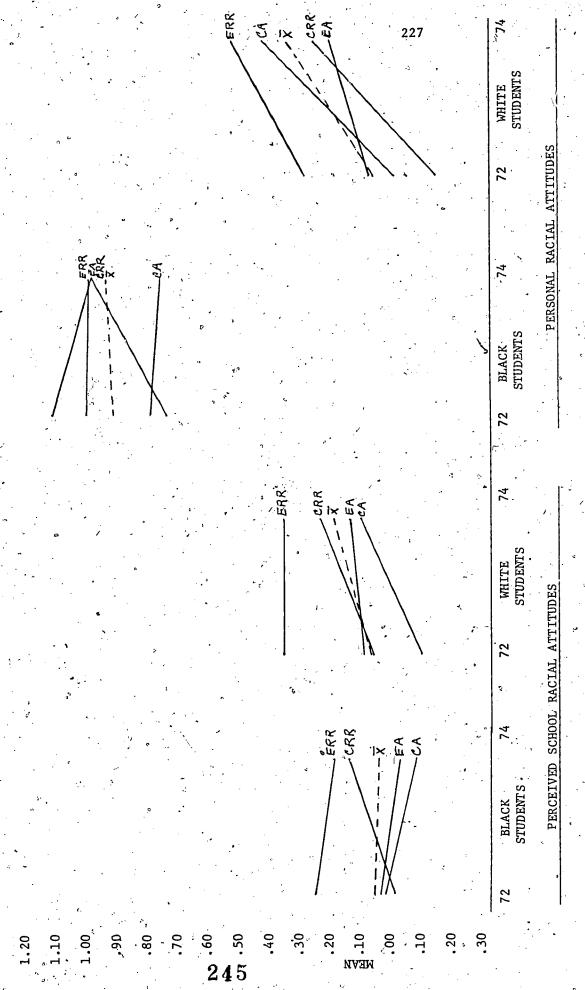
correlation between initial mean and change is -.77. Similar results occur for other elementary school measures. The correlations between initial level and change are: for black students' racial attitudes: -.60; for black students' perceptions of school racial attitudes: -.58; for white students' perceptions of school racial attitudes: -.70. In general, it appears that most of the observed improvement in race relations measures is attributable to schools that were relatively weak in 1972 but had improved substantially by 1974

Figures 6-3 and 6-4 summarize comparisons of race relations variables in 1972 and 1974, showing results for categories of schools. Schools labeled "effective in race relations" were selected from the larger Southern Schools sample because their performance on race-relations measures was high relative to the total sample. Those labeled "comparison race relations" were characterized by approximately average race-relations measures. The schools labeled "effective in achievement" and "comparison achievement" were selected by similar criteria using achievement measures.

Figure 6-3 presents mean scores in 1972 and 1974 on elementary school race relations measures. The graphs show that there was regression toward the mean for effective and comparison race-relations schools. The comparison schools, in general improved. The effective schools lost ground relative to their 1972 scores, and appear more typical in 1974 than in 1972. The effective and comparison achievement schools which were not selected on race-relations variables illustrate the general trend toward improvement, particularly among white students. The schools effective in achievement (EA) in 1972 were higher in racial attitude in 1972, and remained higher in 1974 than did lesser achieving schools (CA). In this case, there was no regression toward the mean over time: The EA improved in racial attitude at about the same rate as CA schools.



Fifth grade. Plots of 1972 to 1974 changes in black and white students'personal and perceived school racial attitudes by four categories of schools: Effective and comparison race relations (ERR & CRR) and effective and comparison achievement (EA & CA). 6-3. Fig.



Tenth grade. Plots of 1972 to 1974 changes in black and white students' perceived and personal racial atfludes, racial contact, and school fairness by four categories of schools: effective and comparison race relations (ERR & CRR) and effective and comparison achievement (EA & CA). Fig. 6-4.

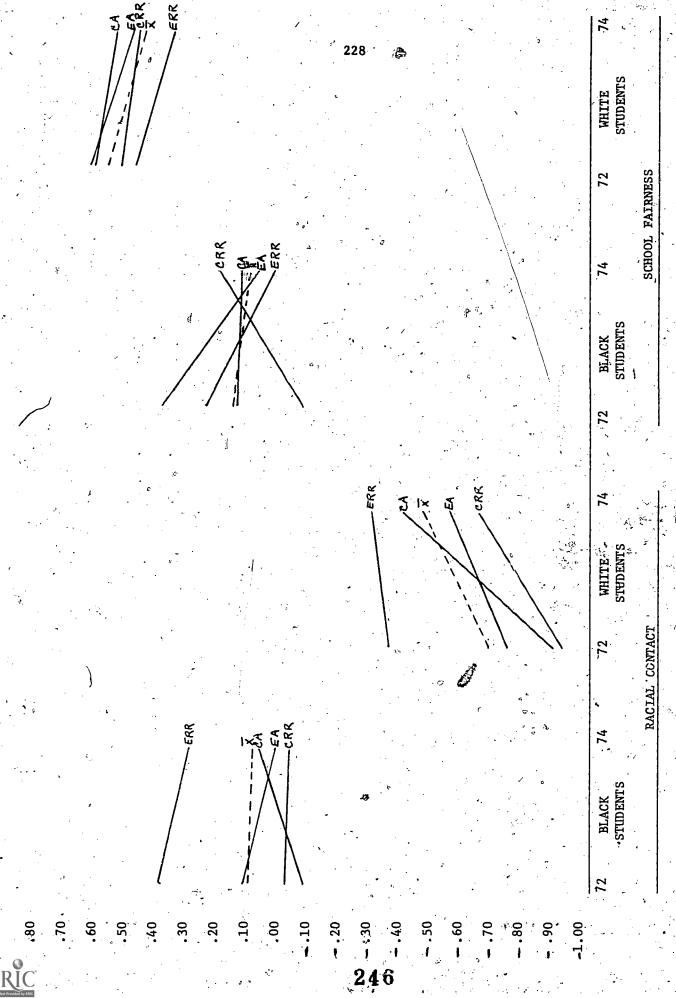


Fig. 6-4 continued.

Figure 6-4 presents comparisons on race-relations measures for high schools. In the high schools, the effective race-relations schools remained more clearly superior over the two-year period than did elementary schools. The improvement of white students, racial attitudes and interracial contact occurred in all categories of schools.

Stability of School Outcomes

Do schools tend to retain their relative status on outcome variables across years? A positive answer, manifested by a substantial correlation between an outcome in year 1 with the same outcome in year 2, would suggest that schools that consistently lead the pack or trail the pack provide useful exemplars. Such a result would lead to the hypothesis that there are causal factors operating over a period of time, either in the schools or in the communities, that lead to similar results for succeeding generations of students.

There are possible social and educational changes that might work against stability of outcome in the correlational sense. One such situation was exemplified in the results described in the previous section. A general improvement across a whole sample may reflect differential improvement of previously weaker schools. (Conversely, a general decline may reflect primarily losses on the part of previously stronger schools.) This result would be shown by higher means and decreased variability. Figure 6-1 illustrates just such a pattern of change. Figure 6-1 also suggests that the cross-year correlation in such circumstances would be low. There might also be systematic variation in school practices or community characteristics that would produce changes in relative standings among schools. Finally, especially in relation to a significant social change like integration, there may be a period during which school outcomes fluctuate widely.

The analyses in this section were done to explore the degree of outcome stability in the Southern schools that were part of both the 1972 and 1974

samples. Items making up the student outcome composites are those presented in Tables 2-1 and 2-2. The composites used in these analyses are unweighted sums.

Internal consistencies and stabilities for school means on race relations and achievement scales were estimated and are summarized in Tables 6-3 (Fifth grade) and 6-4 (Tenth grade). The scales labeled residual scales are measured as residuals from a regression estimate. The background variables that define the regression estimates are listed in each table.

The internal consistency estimates in the two tables indicate that all of the outcome scales for tenth grade white students seem to have an acceptable degree of reliability, both for the original and residual scales. Some rather severe problems with low reliability are found with the race-relations scales for black students at both the tenth and fifth grade levels as well as with some white student fifth grade race-relations scales. Values for tenth grade black students on perceived school racial attitude and racial contact appear quite low for both 1972 raw and residual scales. A similar story is found in examining reliabilities for student racial attitude and perceived school racial attitude for fifth grade black students in 1972.

Overall, the reliabilities for the residual or partialed scales appear to be somewhat higher than those obtained for the raw or unpartialed scales. The result for fifth grade white students' racial attitude is a noticeable exception. A probable reason for this result is that there are high scale reliabilities of the background measures and moderate correlations of the partialed variables with the outcome variables. The fact that the residual scale values are a linear combination of some highly reliable variables with moderate intercorrelations leads one to conclude that residual scale reliabilities should typically have higher reliabilities than would be found with raw scale reliabilities.



Table 6-3

Internal Consistency and Stability Coefficients^J Fifth Grade

		Black Student Scales	nt Scales			White Student Scales	ent Scales	
	Internal Consistency 1972 1974	onsistency 1974	Stab Uncor- rected	Stability r- Corrected For ed Attenuation	Internal 1972	Internal Consistency 1972 1974	Stab: Uncor- rected	Stability or- Corrected For
Student Racial Attitude Sum (Residual)	.50 (.50) ^a	.68 (,69)	,35 (,37) ^b	.62 (.63) ^b	.84 . (.58)a	,56 (,77)	.08 (.12) ^b	.13 (.18) ^b
Perceived School Racial Attitude Sum (Residual)	.48	.67	.00 (02)	.00.	.54	.72	.10	231
Achievement Sum (Residual)	.88	.94	.28	.31	.92	, 46° , (96°)	.39	. 42 (.38)
Background Composite 2	1	1,	.29	.36	1	1	.76	. 84
								•

LN=44 schools The background composite measure used in these analyses is an unweighted composite of percent urban, percent black and the SES items common to both years.

a. Internal consistency measures in parentheses are internal consistency estimates for residual scales. Stability coefficients in parentheses are partial correlations between 1972 and 1974 outcomes. Table 6-4

Tenth Grade Internal Consistency and Stability Coefficients $^{\mathrm{l}}$

Student Racial Attítude Sum (Residual)	Internal (1972).60	Internal Consistency 1972 1974 .60 .65 (.65) ^a (.71) ^a	Stability Uncor-Col rected At	Corrected For Attenuation .16	Internal (1972).84	Internal Consistency 1972 1974 184 .68	Stab. 1974 rected .68 .18	Corr
· · · · · · · · · · · · · · · · · · ·		.57	.20	, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	(.03) ,77 (.81)	.70	(.28) ⁰ .53	6(5.3)° (7.2)° (
	.47	.79	.36	, .59 (.46)	.84 (.88)	.77.	.59	732 97. (85.)
	.86 (.93)	.95	.14 (01)	.15	,94 (,99.)	96° (96°)	.25	.26 (07)
	1 .	i	.31	.43	ī	!	0,7	71

 $^{1}_{2}$ N=48 schools The background composite measure used in these analyses is an unweighted composite of percent urban, percent black

Internal consistency measures in parentheses are internal consistency estimates for residual scales. Stability coefficients in parentheses are partial correlations between 1972 and 1974 outcomes. The columns labeled stability in Tables 6-3 and 6-4 present correlations between 1972 outcomes and 1974 outcomes for the same measures. The coefficient corrected for attenuation is a theoretical correlation that might have been achieved in the absence of measurement error.

None of the fifth grade scales show evidence of cross-year correlation. At the tenth grade level, perceived school racial attitude and racial contact for white students have some consistency (coefficients of .53 and .59 respectively), while personal racial attitude and achievement do not. For black high school students, no scales show appreciable cross-year correlation.

In attempting to understand the significance of these results, let us look first at the pattern of white high school variables that were and were not consistent across years. Perceived school racial attitude remains more alike from year to year than do the measured personal racial attitudes of the students. The respondents in the two years were in fact two different groups of tenth The result for student racial attitude indicates that the attitudes of a school's 1972 tenth graders were not predictive of the attitudes of 1974 tenth graders. On the other hand, the characteristics of the school in relation to racial attitudes as perceived by 1972 students were reasonably good predictors of the same characteristics as perceived by tenth graders in 1974. It appears that prevailing social attitudes and beliefs remain relatively stable and perceptibly stable. Similarly, racial contact is in large measure a school characteristic, as well as a characteristic of individual students. It is a function of the racial composition of the school and the internal integration of school activities. These results suggest that while attitudes of students changed noticeably over the two-year period, there were consistencies in schools that were perceptible at least to white tenth graders.



A check was made to find out if changes in race relations or achievement were accompanied by marked changes in school conditions. The following changes were examined: (a) change in principal; (b) change in racial composition; (c) change in attendance patterns; (d) change in racial composition of the staff. None of these changes account for changes in achievement scores or race relations measures.

School Effects Across Time

A major focus of this study is the investigation of relationships between student outcomes and conditions and practices in schools. That investigation is presented in detail in Chapters 3 and 4. There is a particular aspect of the question that is especially pertinent to the examination of cross-year relationships. We have examined the extent to which 1972 outcomes predict 1974 outcomes. We may also ask the extent to which conditions and practices observed in 1972 predict student outcome in 1974. This kind of comparison is particularly relevant to educational planning and strategy. The consistency of effect identifies school conditions that have a long-range effect. The effect may be lasting or delayed, positive or negative. Any of these effects bears directly on the design of programs and practices.

The 1972 teacher and principal questionnaires were not designed to give a direct measure of a large number of school process variables. Therefore, relationships that can be examined using them are less detailed than those reported in Chapters 3 and 4. However, it is possible to construct measures of several important school characteristics in 1972, and to examine their relationships to outcomes in 1972 and 1974.



Tables 6-5 and 6-6 show relationships between measures obtained from teachers and principals in 1972 and student outcome measures in both 1972 and 1974 for fifth grade black and white students respectively. Tables 6-7 and 6-8 show corresponding results for tenth grade students. The values tabled are partial correlation coefficients, corrected for background measures.

There is evidence for school effects across time in the high school results. The 1974 responses to the racial attitude scale by black tenth graders (Table 6-7) are significantly related to three school measures: lack of tension among the races, a desegregation process characterized by growth and learning (both as reported by teachers), and the general level of support for integration by school staff and school officials (as reported by the principal). It will be noted that none of these three school characteristics was significantly related to the racial attitudes of black students in 1972, when the school characteristics were measured. They were more successful at predicting future student attitudes than present student attitudes. There were apparently school conditions conducive to long-range positive effects to which the contemporary black students were not responsive.

For white tenth graders, both the teachers' racial attitudes and the principal's racial attitudes in 1972 were predictive of students' racial attitudes in 1974. Both of these variables were also related to 1972 racial attitudes of white students, although the teachers' racial attitudes were more closely related to those of future students than those of present students. In addition, the teachers' report of support for integration was related to racial attitudes in both years. A positively functioning desegregation process, as reported by teachers, was significantly related to later racial attitudes but not to contemporaneously measured ones.



Table 6-5

Fifth Grade

Partial Correlation Coefficients of Black Student Outcome Measures with Teacher and Principal Variables Measured in 1972

1972	Racial Attitude	Racial Attitude		Racial Atti	Racial Attitude	Achievement	ment
Teacher Measures	1972	1974		1972	1974	1972	1974
Teacher Racial Attitude	.19	.16		.33*	60	*55*	05
Support for Desegregation	24	,00		08	.02	05	.12
Absence of Tension	**/5	.24		.25	.10	.12	16
Teacher Job Attitude	90 •	.20		07	.19	.07	.16,
Desegregation Process	37**	.17		27	-,02	21	.13
1972 Principal Measures	·		•				
Principal Racial Attitude	.22	.01		*30*	.07	.13	07
Support for Desegregation	37**	05	··	31*	1.17	10	.11
Violence	13	.03		26	18	15	10

p < .05

N = 48 schools

Table 6-6 Fifth Grade

Partial Correlation Coefficients of White Student Outcome Measures with Teacher and Principal Variables Measured in 1972^{1}

Achlevement	1972 1974	.2204	1114	.0322	.08	06 .23	· .	.1406	.1.1 .20	0610
i i an an in <u>i i i</u>	- -								3	v
Students' Racial Attitude	1974	.12	.07	.27	.17	24		.08	.05	70.
Students Racial Atti	1972	.18	29*	.03	.05	07	a?	**07	26	19
ŕ						\$.
School	1974	.10	15	.27	.21	28*		90	.05	.25
Perceived School Racial Attitude	1972	.18	19	.41**	.01	36**	·	.41**	**07	12
1972	Teacher Measures	Teacher Racial Attitude	Support for Desegregation	Absence of Tension	C: Teacher Job Attitude	Desegregation Process	1972 Principal Measures	Principal Racial Attitude	Support for Desegregation	Violence

 $^{1}N = 48 \text{ schcols}$

Table 6-7

Tenth Grade

Partial Correlation Coefficients of Black Student Outcome Measures with Teacher and Principal Variables Measured in $1972^{\, 1}$

1972	Perceived School Racial Attitude	Students' Racial Attitude	Racial Contact	Achlevement	
Teacher Measures	1972 1974	<u>1972</u> <u>1974</u>	1972 1974	1972 1974	
Teacher Racial Attitude	0818	.28* .14	.01 .16	.29*01	
Support for Desegregation	0612	09	2324	1801	
Absence of Tension	.59** .14	.18 .42**	.14 .14	90 70.	
Teacher Job Attitude	.01	1204	0532*	19	
Desegregation Process ,	-,43** -,10	2731*	1201	2222	
1972 Principal Measures		· /************************************		,	
Principal Racial Attitude	.03	.14 .26	.18 .23	.33*03	
Support for Desegregation	.0206	0328*	31*39**	1506	
Violence	-,45** -,37**	1911	1305	1613	
	e :				

P <.05

** p <.01 $^{1}N = 48 \text{ schools}$

Table 6-8

Tenth Grade

Partial Correlation Coefficients of White Student Outcome Measures with Teacher and Principal Variables Measured in 1972

1972	Perceiv Racial	ived School Attitude	Students' Racial Att	Students' Racial Attitude	Racial Contact		Achievement	
Teacher Measures	1972	1974	1972	1974	1972 1974	1972	1974	
Teacher Racial Attitude	.08	, 0.7	.34**	**05.	. 42** . 46**	60.	.14	
Support for Desegregation	21	90°	-,42**	-,41**	-, 39** -, 37**	20	•	
Absence of Tension	**77.	.35*	-,04	.23	03 .26	. 22	.23	
Teacher Job Attitude	03	02	-,37**	22	39**17	25	11	
Desegregation Process	-,35*	26	-,11	-, 36**	1728*	17	09	
1972 Principal Measures				. • . •			.	,
Principal Racial Attitude	.17	.17	.36**	.30**	.33* .17	. 23	.19	
Support for Desegregation	60.	02	24	15	-,44** -,16	24	00.	
Violence	-,41**	-,32*	60.	18	.0303	29*	, - 10 * - 10	
						7		

^{*} c • 05

^{**} p <.01 . l_N = 48 schools

There are also 1972 school characteristics that predict 1974 racial contact and perceived school racial attitude, for both black and white students. It will be noted that a high level of violent behavior is associated with a poor perceived racial attitude for both black and white students in both 1972 and 1974.

These results indicate that there were characteristics of high schools in 1972 that were having an effect on race relations two years later. In some cases the effects were not yet apparent on contemporary students in 1972. There are a number of reasons why such a delayed effect may have occurred. When desegregation or the desegregation pattern was new, many students had not had the chance to be influenced by a school's personnel and practices. It is probable that in early stages of integration, tensions and community influences from outside the school compete strongly with the school's influence. It is also probable that in many cases programs and practices were in early stages of development in 1972 and had greater effects on later generations of students. Perhaps the major policy implication of these findings is that neither lack of outcome consistency from year to year nor absence of observable effects in a given year is a necessary indication that programs and practices are ineffective.

The results indicating school effects across time are limited to race relations at the high school level. They do not occur to the same degree in elementary schools, nor with regard to achievement at either school level. The effects of school characteristics on contemporary race relations are discussed in detail in Chapters 3 and 4.

Comparisons of Outcomes in 1974 and 1975

Schools were selected for further data collection in 1975 on the basis of 1974 scores on a composite of race-relations items from the student question-



naire. The composite combined the responses of black and white students and included all the items from the outcome categories labeled perceived school racial attitude, student racial attitude, and (in high school) racial contact. The main purpose for selecting these schools was to provide interview data for inclusion in a handbook on school practices promoting integration. The schools were chosen to provide as strong a contrast as possible in race relations, on the basis of 1974 data. Race relations was chosen as a focus for the 1975 study because the 1974 data showed greater effects of school conditions on race relations, than on achievement.

Twelve elementary schools were selected as relatively effective in race relations on the basis of the 1974 data. Six of them were from Southern states and six from non-Southern states. Ten elementary schools were also chosen for comparison on the basis of low scores on the race-relations composite. Five were from Southern states and five from non-Southern states. Similarly, 11 effective high schools (six Southern and five non-Southern) and 10 comparison high schools (five Southern and five non-Southern) were selected. In each case the effective and comparison schools were balanced as closely as possible with regard to percent black, percent urban, black student SES, and white student SES.

A limited number of statistical analyses of 1975 data were conducted. The relatively small sample size and reduced amount of data on school characteristics reduced the number of analyses that were feasible. This chapter presents overall comparisons of these schools in 1975 as compared to 1974, and comparisons of 1975 outcomes for schools identified in 1974 as effective and less effective in race relations. Analyses relating school conditions to outcome variables measured in 1975 are presented in Chapter 4 for high schools.

Overall Comparisons

Table 6-9 presents a comparison of elementary schools on outcome variables in 1974 and 1975. In no case was there a significant change. There also were no significant differences for the two years in background variables. Table 6-10 presents comparable data for high schools. Again, there were no significant mean changes in outcome variables. There also were no significant differences in background-variables.

Tables 6-9 and 6-10 show markedly less change in mean outcome measures than did the 1972-74 comparisons presented earlier. There are several differences that may account for the varying results. First, the 1974-1975 comparisons include non-Southern as well as Southern schools. Second, the time lag was one year instead of two. Third, it seems likely that the two periods of comparisons covered meaningfully different time periods in the schools' experience with integration. Most of the Southern schools studied were newly integrated in 1972. A relatively greater change in early years of integration than in later years is not surprising. The non-Southern schools—studied for the first time in 1974—had a considerably longer history of experience with integrated student bodies.

1975 Outcomes for Effective and Comparison Schools

Table 6-li reports analyses of covariance on 1975 race-relations outcomes in elementary schools. The schools labeled effective scored high in 1974 on a composite of race-relations items combining responses of black and white students. The "summary race relations" dependent variable is a composite of race-relations responses by black and white students in 1975. The other dependent variables are the race-relations composites described in Chapter 2. The effective and comparison schools did not differ significantly in 1975 with respect to percent black, percent urban, black student SES, or white student SES.

□ Table 6-9

Fifth Crade

Comparison of Race Relations and Achievement Outcomes in 1974 and 1975

			•		
	$\frac{N^2}{}$	1974 Mean (SD)	1975 Mean (SD)	Change	t
Perceived School Racial Attitude Black Students	21	.58 (.44)	.64 (.51)	+.06	41 e
White Students	22	.82 (.41)	.75 (.41)	07	.52
Student Racial Attitude Black Students	21		/1.21 (.38)	+.08	70
White Students	. 22	1.34 (.36)	1.34	.00	.03
Achievement Sum Black Students	19	29.33 (6.82)		-1.91	1.02
White Students	19		34.14 (7.15)	-2.92	1.49

¹ N=22 schools

 $^{^2}$ Attrition due to low student N $^{\circ}s$ within schools and lack of 1974 achievement data * p < .05 $\,$ ** p < .01

Table 6-10 Tenth Grade

Comparison of Race Relations Achievement Outcomes in 1974 and 1975

		1974	,		• ,
	N ²	Mean (SD)	Mean (SD)	Change	t
Perceived School Racial Attitude	ومتمتم مراج			· 	
Black Students	/21	.16 (.61)	.14 (.52)	02	.09
White Students	21	.26 (.50)	.25 (.50)	01	.10
Student Racial Attitude					•
Black Students	21	.92 (.41)	1.01 (.42)	+.09 🛊 /	66
White Students	21	.55 (.52)	.64 (.56)	+.09	57
Racial Contact	•				, /.
Black Students	21	.11 (.59)	.04 (.51)	07	.42
White Students	21	19 (.65)	21 (.55)	02	.12
School Fairness			• • • • • • • • • • • • • • • • • • • •		
Black Students	21	.25 (.31)	.22 (.40)	03	28
White Students	21.	. 51 (.39)	.59 (.38)	+.08	67
Achievement Sum					<i>!</i>
Black Students	19	23.36 (3.92)	23.64 (5.59)	+.28	~.18
White Students	19	34.11 (4.72)	34.22 (5.41)	+.11	~.07
					5 - 1 - 1 - 1

 $¹_{N} = 21$ Schools

² Attrition due to lack of 1974 data

Table 6-11 Fifth Grade

Analysis of Covariance of 1975 Race-Relations Outcomes

Outcome Variables	Cova	riatea	Effective vs (Based on 1	. Comparison 974 Results)
	MS	${\tt F}^{\bf b}$	MS	$\mathbf{F}^{\mathbf{b}}$
Summary Race Relations	.30	. 21	2.96	2.14
Perceived School Racial Attitude	•		•	
Black Students	.51	2.59	1.21	6.07*
White Students	.03	.17	.14	.82
Personal Racial Attitudes				: ,
Black Students	.74	6.19*	.00	.03
White Students	.04	.39	.13	1.16

aCovariate: Non-Southern =1; Southern =2.
With 1, 19 degrees of freedom
*p<.05 **p<.01

On one dependent variable—the personal racial attitudes of black students—the composition was a significant effect of the South/non-South variable. (Students in non-Southern schools had more positive attitudes.) There were no significant differences in white student responses, nor in the summary measure.

The effect of the effective/comparison variable is significant for school racial attitude as perceived by black students. Schools identified in 1974 as effective in race relations were described by black students in 1975 as having better racial attitudes. The other dependent variables and the summary measure were not significantly different in 1975.

High school results relating the 1974 categorization of effective and comparison schools to outcomes in 1975 are presented in Table 6-12. Two dependent variables are related to the geographical variable: the personal racial attitudes of white students (more positive in non-Southern schools) and racial contact of white students (greater in non-Southern schools).

The high schools labeled effective in 1974 are superior in 1975 on the race-relations summary measure. The results for the other dependent variables suggest that the most important sources of this consistency are the personal racial attimated of black students and the schools' general racial attitude as perceived by white students.

There is greater evidence of stability between outcomes in 1974 and 1975 for high schools than for elementary schools. This was also true of the 1972-74 comparisons. However, there is at least some degree of stability in elementary schools in the 1974-75 comparisons—as indicated by the significant results for school racial attitude as perceived by black students.



Table 6-12 Tenth Grade

Analysis of Covariance of 1975 Race-Relations Outcomes

Outcome Variables	Cova	riate ^a	Effective (Based or	vs. Comparison 1974 Results)
	MS	Fb	MS	Fb
Summary Race Relations	.57	.55	11.21	10.93**
Perceived School Racial Attitude		•	o .	
Black Students	.45	1.93	.65	2.76
White Students	.40	2.00	.91	4.54*
Personal Racial Attitudes			•	
Black Students	.32	2.68	1.01	8.36**
White Students	2.22	10.89**	.34	1.66
Racial Contact	•		7	
Black Students	.78	3.54	.48	2.18
White Students	1.89	9.15**	.51	2.46
School Fairness				•
Black Students	.18	1.16	.18	1.12
White Students	. 05	.31	.00	.02



aCovariate: Non-Southern =1; Southern =2

bWith 1, 18 degrees of freedom *p<.05 **p<.01

Implications of the Cross-Year Comparisons

The 96 Southern schools compared in 1972 and 1974 were characterized by notable change. The change was manifested in both overall alteration in race relations and relative instability of outcomes for individual schools. There is evidence in the correlations between school characteristics and students' racial attitudes that the schools are having at least some effect on race relations. Moreover, the fact that some of these correlations are across years, suggests that school conditions have a lasting effect. The correlation between a school characteristic and the attitudes of students two years later indicates that there is some continuing effect on school programs and social relations. Since these correlational analyses were corrected for variations in socioeconomic status of students, racial composition of the school, and school district population, there is reason to look for sources of improvement in school programs.

The analyses of 43 schools in 1974 and 1975 indicate that there was less change during this shorter and later period. There were no significant changes across all schools in mean race relations and achievement measures. There was a tendency for schools that scored high in race relations in 1974 to retain higher scores in 1975, although this did not occur in relation to all measures of race relations. The two samples for cross-year comparison differed in composition, making it difficult to determine the source of the relatively greater volatility in the 1972-74 comparisons. The Southern schools compared in 1972 and 74 were undergoing social change in the midst of communities undergoing social change. Under such circumstances, the results cast doubt on the assumption that one can predict attitudes and achievement of a school's future students from those of its present students.



That there should be difficulties in identifying schools that exemplify outstanding performance from year to year does not mean that effective programs and practices cannot be identified. On the contrary, the correlations between school outcomes and school conditions, presented in this chapter, and the more detailed study of such relationships, reported in Chapters 3 and 4, suggest that there are indeed school effects and that these effects may be lasting. The evidence that school conditions have an influence on students' attitudes, over and above that of uncontrollable background conditions, offers opportunities for schools to improve the process and outcome of racial integration.

APPENDIX A

"INSTRUMENTS

	•		4		٠		1	Page
Teacher Questionnaire						٠		A-2
Principal Questionnaire	-			٠		.	.,	A-13
Superintendent Interview	44				•			A-21
Fifth Grade Questionnaire	•	20			•	• • •		A-29
Tenth Grade Questionnaire				59	•			A-37

OMB NO. 51-574003
APPROVAL EXPIRES June 30, 1975
PRINCETON, N. J. 08540

EDUCATIONAL TESTING SERVICE



TEACHER QUESTIONNAIRE

Dear Teacher:

The Superintendent of Schools in your district and your own school principal have agreed to participate in a large scale study of the conditions and processes of effective desegregation. The U.S. Office of Education is trying to learn all it can that will help them at the federal level, and school administrators at the local level, to design and carry out programs which will effectively achieve desegregation goals.

Participants will include 5th and 10th grade students, teachers, principals, high school guidance counselors, and school superintendents.

The evaluation will not release data which in any way will identify you.

Our grateful thanks in advance for your cooperation.

Sincerely,

Garlie Forehand

Project Director

lease circle the one response that best describes your answer.

- 1. Are you currently a
 - 1 Third-grade teacher
 - 2 Fourth-grade teacher
 - 3 Fifth-grade teacher
 - 4 Other elementary teacher (SPECIFY)
 - 5 High-school teacher of academic subject
 - 6 High-school teacher of business or vocational courses
 - 7 High-school physical education teacher
 - 8 Other high-school teacher
 (SPECIFY)
- 2. Which age group are you in?
 - 1 25 or under
 - *2*. 26 35
 - 3 36 45
 - 4 46 55
 - 5 56 65
 - 6 Over 65
- Are you male or female?
 - l Male
 - 2 Female
- 4. Which of the following best describes you?
 - 1 Black
 - "2 White
 - 3 Spanish speaking
 - 4 Other
- What is the highest level of education you have completed?
 - l Less than one year of college
 - 2 1 3 years of college
 - 3 4 years of college
 - 4 More than 4 years of college
 - 5 Master's degree
 - 6 Graduate work beyond Master's
 - 7 Doctor's degree

- 6. Everything concerned would you say you are very happy, pretty happy, or not too happy these days?
 - 1 Very happy
 - 2 Pretty happy
 - 3 Not too happy
- 7. On the whole, how would you evaluate the way in which desegregation is working out in your school?
 - 1 Almost no problems
 - 2 Some minor problems
 - 3 Some serious problems
 - 4 Many serious problems
 - 5. Does not apply
- Here is a list of things that have happened in some desegregated schools. Please indicate whether or not each of these things happened at your school.



- 1 2 3 A greater amount of fighting than hefore desegregation
- 1 2 3 Minority group demanding ethnic studies
- 1 2 3 All students are learning more
- 1 2 3 Teachers from different groups are learning to work well together
- 1 2 3 White students are becoming less prejudiced
- 1 2 3 New educational programs are improving schools
- 1 2 3 There is a very tense relationship between black and white students.
- 9. Some people say that black students would really be better off in all-black schools. Others say that black students are better off in racially mixed schools. What do you think?
 - 1 Most black students are better off in all-black schools
 - 2 Most black students are better off in mixed schools

- What about white studynts ~ do you think that white students are better off in all-white schools, or are they better off in racially mixed schools?
 - l Most white students are better off in all-white schools
 - Most white students are better off in mixed schools
- 11. During this school year, have you taken any in-service training, college courses, workshops, or other teacher education dealing with intergroup relations or instruction of disadvantaged students?
 - 1 I haven't taken any training
 - 2 Yes, intergroup relations
 - 3 Yes, instruction of disadvantaged
 - Yes, both intergroup relations and instruction of disadvantaged
 - 5 Took training, but not on those topics
- 12. Which one of the following best describes the amount of time you spent at those teacher-education sessions and preparing for them?
 - I I haven't taken any training
 - 2 I day or less
 - 3 2 or 3 days
 - 4. About a week
 - 5 8 13 days
 - 6 2 weeks or more
- 13. On the whole, how would you evaluate the infervice training?
 - I I haven't taken any training
 - 2 It was a valuable experience for me
 - 3 It was all right, but I didn't learn
 much
 - 4 It was mostly a waste of time, but I did learn something
 - 5 It was a complete waste of time
- 16. Can you think of any way you have changed your thinking as a result of this in-service training?
 - l I haven't taken any training
 - 2 No, I can't think of anything specific
 - 3 Yes, I can think of a specific change

- 15. How much time do you usually spend each day preparing for the next day's classes?
 - l I don't spend any time in preparation
 - 2 Approximately one hour per day
 - 3 Approximately two hours per day
 - 4 Approximately three hours per day or more
- 16. Do other teachers ever ask you for advice about their teaching problems?
 - l Yes, often
 - 2 Yes, occasionally
 - 3 Yes, seldom
 - 4. No, never
- 17. What proportion of your white students would you say are discipline problems - cut classes, damage property, get into fights?
 - 1 20% or more
 - 2 15 19%
 - 3 10 14%
 - 4 5 9%
 - 5 Loss than 5%
 - 6 Does not apply
- 18. What proportiaon of vour black students would you say are discipline problems cut classes, damage property, get into fights?
 - 1 20% or more
 - 2 15 19%
 - 3 10 14%
 - 4 5 9%
 - 5 Less than 5%
 - 6 Does not apply
- 19. What proporation of your white students would you say are performing by your standards for this grade level?
 - To Almost all are doing adequate work
 - 2 More than half are doing adequate work
 - 3 Less than half are doing adequate work
 - 4 Very few are doing adequate work
 - 5 Does not apply

- 20. What proportion of your black students would you say are performing adequately by the same standards?
 - 1 Almost all are doing adequate work
 - 2. More than half are doing adequate work
 - I less than half are doing adequate work
 - 4 Very few are doing adequate work
 - 5 boes not apply
- 21. A number of schools have adopted multiethnic texts which discuss minority-group leaders and portray minority-group characters. Are texts of this type used in your school?
 - 1 Yes, most of the 'exts discuss minority groups
 - 2 Some of the texts are multi-ethnic, but most are not
 - 3 No, none of the texts are multi-ethnic
- 2.1. Have there been any special projects in this school, such as plays or group discussions, which deal openly with intergroup problems?
 - 1 No, not to my knowledge.
 - 2 Yes, I know of one such project
 - 3 Yes, several projects
- 2). How often do you have class discussions about race?
 - 1 Once a week or more
 - 2 Once a month
 - 3 Once every few months \
 - 4 No such discussions so far
- 24. Think for a moment about the three teachers you talk with most often at this school. Are they the same racial (or ethnic) group as you are?
 - · I Yes, all same group as me !
 - 2 No, one or more is from another group
 - 3 All teachers in this scalare the same group

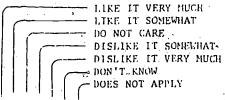
25. Every teacher is bothered by some things about teaching. Look at this list of things that may have been a source of frustration to you this year. Put an "X" in the "yes" column if you have felt this way, or an "X" in the "no" column if you have not.

485 NO

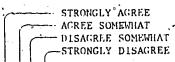
- 1 2 There is just too much work to do.
- 1 2 Many of my students won't try to learn
- 1 2 The range of ability among my students makes it really hard to keep thum all interested and learning.
- 1 2 I feel as if I have a great deal of responsibility and no one to share it with.
- 1 2 I feel as if no one appreciates my work.
- 1 2 Too often I feel I don't have the training to solve some of the problems I am faced with.
- 1 2 I feel the atmosphere is tense in this school.
- 26. Do you feel scores on standardized tests are generally a good indicator of a popil's ability?
 - 1 Yes, good indicator
 - 2 No, not good indicator
- 27. Are you enjoying teaching more or less this, year than you did last year?
 - 1 I enjoy teaching more this year than last year
 - 2 I enjoy reaching less this year than last year
 - 3 I really don't feel any difference
 - 4 Does not apply
- 28. How often, this school year, have you gone to the head of your department or the principal to get advice on a teaching problem you were encountering?
 - 1 I haven't done this at all
 - 2 I asked for advice once or twice this year
 - 3 I asked for advice 3 to 10 times'
 - 4 More than 10 times
 - 5 Does not apply

- 9. feepared to what you think other principals in other school are like, do you think this school's principal is better thin the average, as good as most, or below average?
 - I Principal is outstanding
 - 2 Principal is better than average
 - 3 Principal is as good as most
 - 4 Principal is below average
- 30. Are any of the teachers in this school unfair to black students?
 - 1 , Almost all of them,
 - 2 Many of them
 - 1 A few
 - 4 Only one teacher.
 - ' None
 - 6 Does not apply
- 31. Are any of the teachers in this school amfair to white students?
 - 1 Almost all of them
 - ? Many of them
 - 3 A few
 - 4. Only one teacher
 - 5 None
 - 6 Does not apply
- 32. As far as you'know, has your principal talked with any teachers because they have treated black students unfairly?
 - l^v. Yes
 - 2 No
 - 1 No unfair teachers
 - 4 Does not apply
- 33. As far as you know, has your principal talked with any teachers because they have treated white students unfairly?
 - 1 Yes
 - 2 No
 - No unfair teachers
 - 4 Does not apply

- 34. For how many years have you worked with pupils of other racial or ethnic groups that is, with students from a racial (or ethnic) group different from your own?
 - 1 Never
 - 2 1 year (this is my first year)
 - 3 2 years
 - 4 3 years
 - 5 4 years
 - 6 5 or more years
- 35. As far as you know, how do each of the following feel about desegregation?



- 1 2 3 4 5 6 Most of your students
- 1 2.3 4 5 6 The principal of this school
- 1 2 3 4 5 6 The superintendent of this school district
- 1 2 3 4 5 6 7 Most white teachers in this school
- 1 2 3 4 5 6 7 Most black teachers in this school
- 36. Listed below are some statements other people have made. For each, please mark whether you strongly agree, agree somewhat, disagree somewhat, or strongly disagree.



- 1 2 3 4 The amount of prejudice against minority groups in this country is highly exaggerated.
- 1 2 3.4 1 would like to live in an integrated neighborhood.
- 1 2 3 4 The civil rights movement has done more good than harm.
- 1 2 3 4 Blacks and whites should not be allowed to intermarry.

- If you had to choose one factor which accounts most for failure of the black to achieve equality, which would you choose - a lack of initiative and drive, or the restrictions imposed by a white society?
 - 1 Lack of initiative and drive
 - 2 Restrictions imposed by a white society
- 38. In some schools, a students who is placed in a particular ability class will almost always stay in that level until he graduates; in other schools, a fairly large number of students are changed into diffferent levels before they graduate.

 What happens ir your school?
 - 1 We do not separate students by ability level or into different academic programs
 - Very few students change from one academic lavel or program to acother
 - 3 Approximately one student out of every ten changes between the time he enters school and the time he leaves.
 - 4 More than one-tenth of the students than change
- 39. Would you say that your school is trying harder this year than it has in the past to get parents to visit the school or come to PTA or other parent groups, or is it not trying as hard?
 - l School is trying harder this year
 - ? School is not trying as hard this year
 - No difference
- 40. in some school years, a teacher learns a let about education, while in other years a teacher doesn't learn much. This year, have you learned a lot about:
 - 1. 2 new materials, new kinds of texts, supplementary materials?
 - f 2 theories of teaching reading?
 - 1 .2 effective methods of maintaining discipline?
 - how to handle intergroup relations among students?
 - 2 heing less afraid of other racial and ethnic groups?
 - 1 2 minority-group history?
 - 2 how better to deal with heterogenous classes?

41. Below is a list of programs and practices which are being used in some schools to improve race relations. At these programs or practices exist in your school, we would like to know how helpful you think they are in promoting good race relations. Please mark whether each of the following is very helpful, somewhat helpful, not very helpful, harmful or does not exist in this school.

VERY HELPFUL FOR RACE RELATIONS

SOMEWHAT HELPFUL FOR RACE RELATION

NOT VERY HELPFUL FOR RACE RELATIONS

HARMFUL FOR RACE RELATIONS

ODGES NOT EXIST IN THIS SCHOOL

- 1 2 3 4 N Guidance counselors program
- 1. 2 3 4 N Social worker/home visitor program
- 1 2 3:4 N Teacher aides
- 1 2 3 4 N. Teacher workshops or in-service, training for teachers or aides
- 1 2 3 4 N Remedial reading program
- 12348 Vocational training courses
- 1 2 3 4 N Minority group history or culture
- 1 2 3 4 N Special classrooms for underachievers
- 1.2 3:4-N° Special classrooms for socially or emotionally maindjusted
- 1 2 3 4 N Achievement grouping of classrooms
- 1 2 3 4 N Achievement grouping within classes
- 1 2 3 4 N Major curriculum revisions
- 1 2 3 4 N Extracurricular activities geared towards minority students
- 1 2 3 4 N. Late bus for students who stay for extracurricular activities
- 1 2 3 4 N Program for tutoring lowachieving students
- 1 2 3 4 N Special program to increase parent-teacher contact (6.g., conference)
- 1 2 3 4 N Programs to improve intergroup relations among students
- 1 2 3 4 N Programs to improve intergrouc relations among teachers
- 1 2 3 4 N Bi-racial advisory committee of a
- 123 4 N Student use of equipment, such as reading machiness tape recorders, videotape machines, etc.
- 1 2 3 4 N Team teaching
- 1 2 3 4 N Ungraded classes
- 1 2 3 4 N Demonstration or experimental classrooms

We would like your honest opinion on difference a between black and white boys and girls. In columns.

				[BOYS					F	IRLS	
	-			L						L_		
	ſ			_	BLACKS		٠ ٢	·		_	BLACKS	
					WHITES			-	67	_	HITES	
	.	-	آ		NO DIFFERENCE		-		7	-	NO DIFFEREN	ICE
	-	`	-	ſ	NOT APPLICABLE	g					NOT NPPLICABLE	
Who are more active?	3	2	1	ii			3	2	1	N.		
Who generally read better?	3	2	1	N			3	2	1	N		
Who are better musically?	3	2	1	N			3	. 2	1	N		
Who are most athletic?	3	2	1.	N			3	2	1	N		•
Who are better adjusted to school?	3	2	- -	N			3	2	1	n		
Who are quicker to catch on to new concepts?	3	2	1	N			3	2	1	/ N		
Who are generally more attentive in class?	3	2	1	N			3	2	1	N		
Who do you like to teach better?	3	2	1	N	· ·	·	3	2	1	N	•	
Who get along better socially?	3	2	1	N		÷	3	2	1	N		
Who are more achievement oriented?	3	2	1	N	Ś	•	3	2	1	N	·	
Who cause wore rouble, in class?	3	2		N			3	2	1	N		
Who need more help from you?	3	2	1	N	t.		3	2	1	N	<i>(</i>)	

. How much choice did you personally, have in

COMPLETE CHOICE

A LOT OF CHOICE

SOME CHOICE

LITTLE CHOICE

ALMOST NO CHOICE

NOT APPLICABLE

6 4 3 2 1 N Getting a job in this particular school?

3 4 3 2 1 N Selecting the grade or courses you wished to teach?

3 2 1 N Solecting the kinds of students you wished to teach?

w kbooks, etc.

14 1 2 1 N A. Jring the necessary

4 3 2 1 Astablishing your own routine

4 J 2 l ing according to your style?

44. During the time you are actually teaching your students? how often do you

SEVERAL TIMES AN HOUR
SEVERAL TIMES A DAY
AT LEAST ONCE A DAY
ONCE OR TWICE A WEEK
ALMOST NEVER

5 4 3 2 1 Warn students to pay attention

5 4 3 2 1 Give directions

5 4 3 2 1 Praise students for their accomplishments

5 4 3 2 1 Scold students for mishchaving

5 4 3 2 1. Ask questions

5 4 3 2 1 flave class discussions

- 15. Compared to other schools that you know gibout, would you say that the tone of this school is more strict, more easy going, or about average?
 - . More strict
 - 2 More easy going
 - 3 About average
- 16. If you had to tank order the following objectives for your school, how would you rank them? Please mark your first choice 1, your second choice 2, and your third choice 3.
 - L 2 3 Good relations with the community
 - 1 2 3 Good academic achievement .
 - 1 2 3 Good race relations
- 47. We would like to find out how people get along together in your school. Mark one choice telling how each of the following people get along together.

OPEN, WARM (OFTEN INTERACT)

FRIENDLY

POLITE

DISTANT, COOL (SELDOM INTERACT)

HOSTILE

NOT APPLICABLES

- 5 4 3 2 1 N You and the Principal
- 5 4 3 2 1 N You and the black teachers
- 5 4 3 2 1 N You and the white teachers
- 5 4 3 2 1 N You and the parents of your black students
- 5 4 3 2/1 N · You and the parents of your white students
- 5 4 3 2 1 N You and the black students
- 5 4 3 2 1 N You and the white students
- 5 4 3 2 1 N The principal and the
- 5 4 3 2 1 N The principal and the black students
- 5 4 3 2 1 N The principal and the white students
- 5 4 3 2 1 N Black teachers and white teachers
- 5 4 3 2 1 N Black students and white students

48. In general, how much influence do you think the following persons or groups have in this school? For each of the following, please rate their actual influence over the way your school is run.

MOST INFLUENCE

CONSIDERABLE INFLUENCE

MODERATE INFLUENCE

SOME INFLUENCE

- LITTLE OK NO INFLUENCE

PNOT APPLICABLE

5 4 3 2 1 N The school board

5 4 3 2 1 N The superintendent

54321N The principal

5 4 3 2 1 N The assistant principal

5 4 3 2 1 N Black teachers

5 4 3 2 1 N White teachers

5 4 3 2 1 N You, yourself

5 4-3 2 I N Black students

5 4 3 2 1 N White students

5 4 3 2 I N Black parents

54321 N White phrents

- 49. In general, do you think the principal and his administrative staff are trying to be supportive and helpful to the black teachers in this school?
 - 1 Yes, they are trying their best
 - They try some, but not enough
 - 3 They hardly try at all
- 50. In general, do you think the principal and his administrative staff are trying to be supportive and helpful to the white teachers in this school?
 - ·1 Yes, they are trying their best
 - 2 They try some, but not enough
 - 3 They hardly try at all

HIGH SCHOOL TEACHERS PLEASE NOTE

Please skip to page 11 now and answer questions H-1 to H-13

ELEMENTARY TEACHERS PLEASE NOTE

Please turn to page 9 now and answer question E-1 to E-16

FOR TEACHERS IN ELUMENTARY CRADES

								•
E-1.	program with more than one teacher (not an aide) snaring students and teaching them?	\$	E-7	e: a:	ach. gred	, pl 2, a	ea Igr	ow are some statements. For se mirk whether you strongly ce somewhat, disagree somewhat, y disagree.
	1 Yes, all day	•	•					- STRONGLY AGREE
•	2 Yes, part of every day			- {	_			- AGREE SOMEWHAT
	3 Yes, on some days	r,					_	
•	4 No		* .					DISAGREE SOMEWHAT
				ļ) د	STRONGLY DISAGREE
E-2.	Do you have any teacher aides working			4	3	2	1	A regular routine helps stud- ents to develop good habits.
	with you and your students?			4	3	2	1	Students learn better when the
	l Yes, full time for my class							work at what they themselves prefer.
	2 Yes, part time for my class		•	4	3	2	1	To sit still and pay attention
	3 No		ş		د	-	•	is a necessary skill for sur- vival in the adademic world.
				4	3	2	1	Praise for accomplishment is
`E-3.	in an average week, how much extra time (nor counting homework) do most poor		-				9	the most important concept in teaching.
er er	renders spend in reading?			4.	.3	2	1	Students learn best by actively exploring their environment
	2 1 hour to 2 hours a week extra	٠		4	3	ź	1	Textbooks and workbooks are
r	} or more hours a week extra			٠	•			important for academic
				4	3	2		The less structure a class has
E-4.	In an average week, how much extra time	. ,	• •		•	•	•	the more stydents are free to learn by discovery.
	(not counting homework) do most poor math students spend on arithmetic?	٠		4	3	2	ļ	A quiet, orderly classroom helps to create the atmosphere
	1 None		•					for learning.
	2 1 hour to 2 hours a week extra	4.		4	3	2	1	A busy, active, noisy classroom
e	3 3 or more hours a week extra				Λ.			is one filled with opportunitie for learning.
		ે.		4.	3	2	1	It is important that students
E-5.	I usually don't permit students to talk				,			be allowed to express their feelings - even angry feelings.
≎	in class unless they first raise their hands.		•					
. •	1 Agree		E-8.	Λрр	rox	ima	te.	ly how many black or white
	2 Disagree	, e		par wit	ent h y	s h	3 V E	talked on their own volition the last month about their
,		×4		cni	1d?			
E-6.	How many black students and white						•	parents
	students do you teach?			·	I	Whi	te	parents
	Rlack students				- ·	-	:	
. '	White students		E-9.	Ann	ro	: i	1	r hone — non- = C
			u-).	whi	te s	stud	len	y how many of your black or ts required some contact with
		, . ·		the	.dis	scip) l i	nary staff (or office) in the
				las	t mo	onth	1?	
<u>ල</u> ාල		2.			F	Rlac	k	students

1 [10]	During class time, my students generally spend most of their time	E-13.	Do your black students ever tutor your white students?
	l As a total class		्री Yes
	2 In several small groups		, 2 No
	3 Individually		
	4 However they wish		•
		E-14.	Do your white students ever tutor your black students?
E-11.	During class time, my students		1 Yes
٠	generally are		2 No
	1 Moving about, quite active		
-	2 Allowed to move about somewhat		
	3 Allowed to move about only when permission is granted	E-15.	In your opinion, what one factor contri- butes most to good race relations at your school?
	4 Not allowed to move about during class time		SCHOOL:
			The second secon
E-12.	During class time, my students generally are		The second secon
•	⁰ l Very noisy		
	2 Moderately noisy (E-16.	- year openizon, white of the the tollette
,	3 Reasonably quiet		butes most to good agademic achievement at your school?
	4- Very quiet		
	5 Allowed to speak only with permission		

THANK YOU FOR THE TIME AND HELP YOU HAVE GIVEN TO THIS STUDY.

FOR HIGH SCHOOL TEACHERS

H 1.	llas the school organized any new bi-racial extracurricular activities this school year?	H-8.	Which of the following curricula do you think are valued most highly by persons at your school?
	l Yes		•
	2 No		COLLEGE PREPARATORY CURRICULUM
	3 Does not apply		GENERAL CURRICULUM
	The state of the s		BUSINESS CURRICULUM
			VOCATIONAL CURRICULUM
11-2,	Has the school taken steps to make		ALL ARE VALUED EQUALLY
•	sure that most social clubs, band, athletic teams, etc., are integrated?	ì	5 4 3 2 1 By the principal
	1 Yes, and most are integrated		5 4 3 2 1 By the counseling staff
	2 Yes, but many are not integrated		5 4 3 2 1 By most of the black teachers
-	3 No steps have been taken officially		5 4 3 2 1 By most of the white teachers
	to trops have been taken bilicially		5 4 3 2 1 By most of the black students
			·
11-3.	Compared to last year, as far as you		5 4 3 2 1 By most of the white students
	know, has student participation in		5 4 3 2 1 By most of the black parents
	extracurricular activities increased.	•	5 4 3 2 1 By most of the white parents
	decreased, or remained the same in your school?		5 4 3 2 1 By you, yourself
	1 Increased	***	
	2 Decreased	н-9.	Approximately to a second second
	3 Remained the same	ц-э,	Approximately how many black or white parents have talked on their own volition
	Control Contro		with you about their child in the last month?
			Black parents
H-4.	Has the school eliminated any student dances because of possible racial		White parents
	problems?		
	l Yes		
	2 No	н-10.	Approximately how many of your black or
	ζ.		white students have been temper willy suspended in the last month?
			Black students
H-5.	las the school eliminated any student		White students
o	elections because of possible racial problems?	, 3.	- Sudding
	l Yes	,	
	2 No	H-11.	Approximately how many of your black or
		:	white students have transfered out of this
			school so far this year?
11-6.	Approximately how many black or whire	•	Black students
1	students do you teach?		White students,
	Black stedents		
	White students	1	
19 1	, T	H-12.	In your opinion, what one factor contributes most to good race relations in your school?
1-7	Appropriately		
1-7.	Approximately how many of your black or, white students required some contact with		
	the disciplinary staff in the last month?		i K
	Black students	•	
	White students	•	
,	0		n

EDUCATIONAL TESTING SERVICE

PRINCETON, N. J. 08540



PRINCIPAL QUESTIONNAIRE

School District:	Number:	
Numer of School:	Number:	ŷ

Dear Principal:

Thank you very much for agreeing to participate in our study of the conditions and processes of effective desegregation. The U.S. Office of Education is trying to learn all it can that will help them at the federal level, and school administrators at the local level, to design and carry out programs which will effectively achieve desegregation goals.

Participants will unclude 5th and 10th grade students, teachers, principals, high school guidance counselors, and school superintendents.

The evaluation will not release data which in any way will identify you. The only possible exception to this rule is that we may wish to identify and discuss a few unusually exemplary schools in order to make the report more courrete and believable; however, this will never be done without your written consent.

Our grateful thanks in advance for your cooperation.

280

Sincerely,

Garlie Forehand

Project Director



U. S. O. E. SCHOOL *** SEGREGATION STUDY PRINCIPAL'S *** PRESTIONNAIRE**

1. First, we would like to know about some programs, courses, and personnel. Considering the size, composition, and needs of your particular student body, please indicate (A) how adequate each feature is, (B) if that item is available to 5th graders (if elementary school) or 10th graders (if high school), and (C) if your school had that item last year (1972-73).

		size need: stud the repr	, composed of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the composed of the contract of	ositio our pa dy, plo mber ti your	unt, th n, and rticula ease ci hat bes view ab	r rcle t	availa 10th g	B t/are (ITEM) ble to 5th/ r.wers? one number.	have (1 last ye	school TFM) ar ? Circle
-		ade- quate	ade- quaté	irade-		do not have	Yes	No	Yes	No
(1)	Guidance counselors	1	2 ,	3	. 4	5	6	7	p	9
(2)	Social worker or home visitur program	1	2	3	v 4	5	6	7	8	9
(3)	Teacher aides	1	2	3	4	5 "	6	7 .	8	9
(4)	Teacher workshops or in-service training for teachers/teacher aides	1	2	3	4.	5	6	, 7	8	9
(5)	Remedial reading program	1	2	3	4	5	6	7	R [']	9
(6)	Vocational train- ing courses	1	2	3	4	5	6	7		9

									السراحية المحمور والمراسي	
(7)	Minority group history or culture courses	1	2	3	4	5	6	7	.8	9
(8)	Special classrooms for underachievers	1	2	3	4	5	. 6	7	8	9
, (9)	Special classrooms for socially or emotionally mal- adjusted	1	2	3	4	5	6	7	8	9
(10)	Achievement grouping of classrooms	1	2	3	4	5	6	7	8	9
(11)	Major curriculum revisions	1	2	3	4	5	6	7	8	, 9
(12)	Extracurricular activities geared toward minority students	1	. 2	3	4	· ·	6	7	8	· . 9
(13)	Late hus for students who stay late for extracurricular activities	1	2	3	4	5	- 6	7	8	9
(14)	Program for tutoring low-achieving students	1	2	3	ü	5	6	. 7	8	9
(15)	Special program to increase parent-teacher tentach (e.g., conferences)	1	2	3	4	5	6	7	8	9
(16)	Programs to improve intergroup relations among students	1	2	3	4	5	6	7	8	\$
(17)	Program to improve intergroup relations among teachers	1	2	3	4	5	6	7	8	9
(18)	Bi-recial advisory committee of students	1	2	3	4	5	6	7	8	9 .
(19)	Equipment for students to use, such as reading machines, tape					2				
	recorders, video tape machine, etc.	- 1	2	. 3	4	5	6	7	8	9 .

Ż.	lí fea	you ha tures	d to just	adviso mentio	a p	rincipa which t	nf: ∵ee	a scho vould	ol wh you	ich say	didn't i are most	nave any import	of the ant?
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	2.		v			A. 1		-					
	3.					·							



Α.	Tabal and		eaching Faculty	Administrat Staff
Α.	Total number			
3.	Race Composition			`
	(1) Black			
	(2) White	~		
	(3) Other	. ~		. 1
:.	Sex Composition	_		
	(1) Males			
	(2) Females	~		
		~		
ħα	it is the composition of your clerical staff			
ħα	it is the composition of your clerical staff	c	lerical	Custodial
	r.	c		Custodial
	Total Number	c	lerical	Custodial
	Total Number (1) full-time	c	lerical	Custodial
•	Total Number (1) full-time (2) part-time	c	lerical	Custodial
•	Total Number (1) full-time (2) part-time Race Composition	c	lerical	Custodial
	Total Number (1) full-time (2) part-time Race Composition (1) Black	c	lerical	Custodial
•••	Total Number (1) full-time (2) part-time Race Composition (1) Black (2) White	c	lerical	Custodial
•••	Total Number (1) full-time (2) part-time Race Composition (1) Black	c	lerical	Custodial
	Total Number (1) full-time (2) part-time Race Composition (1) Black (2) White	c	lerical	Custodial
A. 3.	Total Number (1) full-time (2) part-time Race Composition (1) Black (2) White (3) Other	c	lerical	Custodial

Elementary School Principals
Please skip to question 5
on page 7

High School Principals Please continue with question H-1

- H-1 Does your school have a "career day" when representatives of various professions and occupations come to talk to the students about careers in their fields?
 - l Yes
 - 2 No
- H-2 A. Do representatives from predominantly white colleges come to your school to talk to students about their colleges or universities?
 - l Yes
 - 2 No
 - B. Do representatives from black colleges come to your school to talk to student: out their colleges or universities?
 - l Yes
 - 2 No
- N-3 Do you have a work-study program -- we mean any kind of institutionalized program where students both work and attend classes?
 - 1 Yes
 - 2 No
- H-4 When your present 10th graders were in 7th and 8th graders, approximately how many of them went to schools which had ability-grouping? Would you say almost all, over half, less than half, or very few?
 - 1 Almost all
 - 2 Over half
 - 3 Less than half
 - 4 Very few,
- H-5 Two ability-grouping procedures are placing students into programs by their own choice and placing students into programs primarily on the basis of test scores or teachers' recommendations. Which best describes the ability-grouping procedure used in this school?
 - 1 Students are placed into programs -- college preparatory, vocational, etc., by their own choice.
 - 2 Students are placed into programs or academic tracks primarily on the basis of test scores or teachers' recommendations.
 - 3 We don't have academic programs or tracks, either because the school is too small or because we disapprove of tracking.
 - A. Approximately what proportion of the 10th grade academic classes 4- English, Math Social Studies, etc. -- are separated by program, so that students are in class only with students in their ability-group level or program?
 - 1 Al1
 - 2. More than half
 - 3 About half
 - 4 Less than half

В.	Are the non-a	∍demic	classes,	8.7cµ	as	homeroom,	gym,	health,	music,	art	 separated	bу
	ability-group	levels	or tracks	s ?					c			

- 1 Yes, all are separated
- 2 Some are separated
- 3 None are separated

								,
C.	How many	different	levels of	10th grade	English are	there in	this	school?

- 1 Cne
- 2 Two
- 3 Three
- 4 Four
- 5 Five
- 6 Six
- 7. Seven or more

H-6 Considering the present situation facing your school, how much AL anything do you think the school can do to reduce the number of white students who do not finish high school?

Have little Have some Have substantial Have very great or no effect effect effect

II-7 How much if anything do you think the school can do to reduce the number of black students who do not finish high school?

Have little Have some Have substantial Have very great or no effect effect effect 3 4

H-8 Are the student government officers in your all of the same racial group, or are they from different groups?

- 1 All of the same racial group
- 2 Different groups
- H-9 Are the cheerleaders in your school all of the same racial group, it are they from different groups?
 - 1 All of the same racial group
 - 2 Different groups

H-10 During this school year, how many students in your school have been warned or disciplined because of inappropriate dress or hair length?



H-11	How did your footh, game, did they win	all team do t more than ha	his school y	ear was the	team undef	eated or a	ost only on
,		11 team		1	<i>•</i>	٧٠	
		d or lost enl		2			
		than half the					. ,
		than half the					
•		, , , , , , , , ,	, g		,	•	٠
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H-12	How about your basingame, did they win	ketball team more than ha	this school lf their gam	year was thes, or less th	ne team unde ian half?	ifester ord	logt only o
	No baskett	oall team		2	7 .	•	
•	Undefeated	or lost onl	y one game .	2			
	Won more t	than half the	ir games . :	3			-
•	Won less t	han half the	ir games	4	: .		
•	•				: :·		j
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				,		•	<u>.</u>
· 5.	What was the average	a dailu akaa	*				,
	What was the average	: daily absen	reelsm for t	nis school (n	January 197	4?	 -
	•				• • • • •	ar justice of the second secon	
6.	What was the average	daily atten	dance for th	is school in J	anuary 1974	?	
	•				,		
						•	•
7:	Has the absenteeism 1972-73, or about the	of black stud	dents been g	reater or less	in this sc	hool year t	han in
	l Greater	ie same:				10	•
	•*	•			•		. •
	2 Less				<u>.</u>		
- ,	No change					6	
•	4 No black students	lastWyear	,			•	, 's es
	•			<i>.</i> .	- ' · .	· · · · · · · · · · · · · · · · · · ·	
8.	Has the absenteeism in 1972-73, or about	of white stud	dents been g	reater or less	this schoo	l year than	i t°'was
٠.	l Greater				• •		
	¿ Less						
	3 No Change		•	•	. •		· 2
· .	4 No white students	lact year		•	•		
٠, ،	/ No white students	iast year	•	•	١.	•	8
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We would like to find out how people get along together in your the interactions between each of the following:

(<u> </u>	_			OPEN, WARM (OFTEN INTERACT)	
Ì						FRIENDLY	
	Ì					POLITE	•
-						DISTANT, COOL (SELDOM INTERACT)	.•
				. (-		HOSTILE	• .
						DOESN'T APPLY	
5	4	. 3	2	1	0 -	You and the administrative staff	
5	.4.	3 -	2	1	0 .	You and the black teachers	٠
5	4	3	2 .	. 1	o	You and the white teachers	
5.	4	3	2	1	0	You and the parents of your black stude:	nts
5	` <u>/</u> :	3	2.	1	0	You and the parents of your white studen	nts
5	4	3	2	1	0 ,	You and the black students	
5	4	3, ·	2	1	· 0 ·	You and the white students	
5	4	3	2*	4	0 .	Black teachers and white teachers	•
5	4	3	2	1	0 ,	Black students and white students	
	•					i.e.	

	,	
10.	Which of the following, if any, tend to produce particular school? (Check as many as apply)	ack of unity in the teaching staff of
	A. Differences in teaching philosophy	
	B. Disagreement with administration in building	The state of the s
	C. Different amounts of interest in education	
¢	D. Age differences	3
	E. Sex differences	
	F. Differences in race	Annual Control of the
	G. Differences in religion	
	H. Something else: Please specify	A second
	1. There is no lack of unity at all	6

, of you had to rank order the following objectives for your school, how would you rank them? Please circle your first choice I, your second choice 2, and your third choice 3.

2 3 relations with the community
3 ood academic achievement

Good race relations

THANK YOU VERY MUCH FOR THE TIME AND HELP YOU HAVE GIVEN TO THIS STUDY.

OMB NO. 51-S74003 APPROVAL EXPIRES June 30, 1975

EDUCATIONAL TESTING SERVICE

PRINCETON N. I. 08540



SUPERINTENDENT INTERVIEW

School District:		 •			42	
Respondent's Name:	1 ₁ =	 1	, "		٠ n	
and Title:					÷	,

1	Yes		`	• •								
2	•											
	IF YES	۸.	Ry what	method?								
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	•			ing school	:s			٠				
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			4 Other	r: Descri	be	<u> </u>			·			
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	-	В.	 In what	waam 111								
	-	,	the rac	year did ial compos	ition des	segregat of vour	ion plan schools?	have the	he grea	test ef	fect in	changi
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	•		2 1971	-						-		٠.
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a a		\$	4 1969	· .								
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	e.		7 1966				•					ē
	•		8 1965		••							
	erene berkemenbermen		9 earli	er than 1	965				•			
	*	•					;	-				
	•	c.	Did thee	0 0010000								
		•	l Yes	e changes	arrect	eremen	cary sch	ools in	your di	strict?		
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		D	Did thes	e changes	affect	high so					,	
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		_	دی طری کا	43.			•		



(hi wid	will be talking later with ts/their) particular school(s) e or community-wide plans or sample.	. Right now	. l'd like	to ask von	brickly about	district-
(1)	,	ong-range pl	anning?		,	o
	IF YES: DESCRIBE BRIEFLY	•	IF NO:	CHECK HERE		
	*		•	2	j .	
		<i>∳</i>				· *
(2)	Do you have the base we t					
(2)	Do you have (or have you ha 1F YES: DESCRIBE BRIEFLY	d) a communi		s program? CHECK HERE		
					٠.	
	•	•		<i>t</i> •		
		,		**		, 6
a (3)	Do you have a centrally loc IF YES: DESCRIBE BRIEFLY	ated remedia	l or tutori <u>IF NO</u> :			
	*		•			
	·			•		
	,			•		
		-		3		
(4)	Have you had district-wide workshops specifically rela	or inter-school	l desegrega	tion?	programs, inst	itutes or
	IF YES: DESCRIBE BRIEFLY		IF NO:	CHECK HERE		
	·					
				•		
						. 1
(5)	Were any special supplies, or to more than one school w	equipment, or within your d	materials	made availa	ble on a dist	rict-wide basis
•	IF YES: DESCRIBE BRIEFLY	•	IF NO:	CHECK HERE		
			.*			
		• •		. س	n	
(6)	Were any specialists made av IF YES: DESCRIBE BRIEFLY	allable to t		on a distri CHECK HERE	ct-wide level	?
•		*		-		. · · · · ·
• •	•		•		•	

3B. Now, to go back over these last few question: , did these district-wide programs you have described directly affect READ THE SAMPLE SCHOOLS BELOW

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	RANGE NNING	COMMU RELAT PROG	TONS	REMEI OR TU PROGI	TORIAL	INSTI	ER-EDUC. TUTES OR KSHOPS	SPEC SUPPL EQUII	IES OR	SPECU/	NJISTS
YES.	NO	YES	NO	YES	ОИ		NO	YES			NO
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4.	has	all the va turned ou SAMPLE SO	it to have	the mos	t effect	in raisir	ig achie	vement le	rabout, wh evels of th	ich one de e student:	o vou think s in READ
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,	Α.	Have any	previousl 1 or spec	y all bla	ack schoo	ls in thi	s distr	ict been.	closed or	converted	Into:
		1 Yes	- 01 0110		010.						
		2 No						1+			
					.•	•	-				•.
		,									
·	В.		previousl	y all bla	ack schoo	ls in thi	s distr	ict been	integrated	:	•
		l Yes	. o**	•							
		2 No		٠			•				
,				-			•				
	C . 2	Are any p	reviously	all blac	k schools	still a	ll black	c?			
		l Yes		٠.							
		') No	•								,



			1			t year was	
			YES	NO		racent?	
(1)	Has there ever been a boycott in this district b of desegregation?	ecause	1	2			
·(2j	Are there any segregated private schools in this community?		1	2			
(3)	Was there any effort made to defeat the superint or school board in an election since desegregatischools?		1	2			
		_					
۸.	Has there been a protest by whiles this school ye	ar?	1	2			
B.	What about last school year?		1	, 2		• *	÷
Λ.	Has there been a protest by blacks this school year	ar?	1	2			
B.	What about last school year?	, -	1	2			
	י	•					
cívi demô	in was the most recent large protest by blacks here il rights issue such as employment or education? Outstrations for more than one day, with arrests, or	(By larg	e, I mo	an whe	re there	were	-
civi demê	il rights issue such as employment or education?	(By larg	e, I mo	an whe	re there	were	-
civi demê	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olved.)	(By larg	e, I mo	an whe	re there	were	-
civi demê	il rights issue such as employment or education? oustrations for more than one day, with arrests, or olded.) a 0 1973	(By larg	e, I mo	an whe	re there	were	
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cívi demô	il rights issue such as employment or education? outstrations for more than one day, with arrests, or olded.) 1 0 1973 1 1972 2 1971 3 1970 4 1969	(By larg	e, I mo	an whe	re there	were	
cívi demô	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olded.) 1 1973 1 1972 2 1971 3 1970 4 1969 5 1968	(By larg	e, I mo	an whe	re there	were	
civi demê	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olved.) 0 1973 1 1972 2 1971 3 1970 4 1969 5 1968 6 1967	(By larg	e, I mo	an whe	re there	were	
cívi demô	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olved.) 0 1973 1 1972 2 1971 3 1970 4 1969 5 1968 6 1967 7 1966	(By larg	e, I mo	an whe	re there	were	
civi demê	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olved.) 0 1973 1 1972 2 1971 3 1970 4 1969 5 1968 6 1967 7 1966 8 1965 or earlier	(By larg	e, I mo	an whe	re there	were	
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cividemè de me de mè de mè de mè de mè de mè de mè de	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olved.) 0 1973 1 1972 2 1971 3 1970 4 1969 5 1968 6 1967 7 1966 8 1965 or earlier 9 Never	(By larg r violen t some s	e, I moce, or	an whe large	re there numbers c	were If people	
cividemic invo	il rights issue such as employment or education? outtrations for more than one day, with arrests, or olded.) 0 1973 1 1972 2 1971 3 1970 4 1969 5 1968 6 1967 7 1966 8 1965 or earlier 9 Never Some districts the desegregation plan requires that nearest to their home. Approximately how many, if any, white students here	(By larg r violen t some s re atten	e, I moce, or	an whe large	re there numbers c	were If people	

11.		g the 1972-73 school yearde all sources of funds				ture in averag	e daily at	tendance
		•					-	-
			\$				•	
	÷			•				
12.	ls ti	ne school board here elec	ted at large,	elected	from distr	icts, or appoi	.nted?	
	Elect	ed						
		at large	1		•			
		from districts	. 2			÷		¢.
	Арроі	nted	3		i i	•		
			•		•		•	
14.	is ti	e superintendent in this	district elec	ted or a	ippointed?		,	
	Elect	ed	1					
			2				·	
				•		. •		
14.	Did (super	you/the superintendent) intendent?	hold another p	osition	in this di	strict before	becoming	
	Yes .		1					•
J	No .		2				٠.	
					٠	•	,	
			7				•	
					٠.			
			s 8	۰ ۰				-
		· · · · · · · · · · · · · · · · · · ·	•					
				3.			,	
		THANK	YOU VERY MUCH	FOR YOU	R ASSISTAN	CE:		
	•				5			
	•,		INTERVIEWER	REMARKS	10 BE			
•		FILLE	D OUT IMMEDIAT	ELY AFTE	R INTERVIE	1		
	А. С	ODE RESPONDENT'S RACE/ET	HNICITY:	В.	CODE SEX:		0	
	B	lack	1		Male		1	
		ite	2	٠.	Female		2	
	- 0	ther	3	•				٠.
	α, τ	IME ENDED:		D.	TOTAL LENG	:Tit:		
	E. D	ATE OF INTERVIEW:		F.	SIGNATURE INTERVIEWE			
	٠.	•						•



Num'or



SURVEY QUESTIONNAIRE

5th GRADE FORM

Educational Testing Service Princeton, New Jersey

February, 1974

296

NCS Trans-Optic S411A-54321



We are talking with students, teachers and principals in many places across the United States and we need your help. Your answers to the questions in this booklet are important in letting us learn how to improve schools.

We hope you enjoy thinking about these questions.

Thank you for your belp.

DIRECTIONS

THE RESEARCH WORKER WILL READ EACH QUESTION AND EACH POSSIBLE ANSWER. MARK YOUR ANSWER BY FILLING IN THE CIRCLE NEXT TO THE ANSWER THAT BEST DESCRIBES YOU OR WHAT YOU THINK, MARK ONLY ONE ANSWER FOR EACH QUESTION. IF YOU WISH TO CHANGE AN ANSWER, ERASE YOUR FIRST MARK COMPLETELY. USE ONLY A No. 2 OR SOFTER LEAD PENCIL.

EXAMPLE:

Are you in the fifth grade or in high school?

- Fifth grade
- @ High school

YOU WOULD FILL IN THE FIRST CIRCLE, NEXT TO "FIFTH GRADE" FOR YOUR ANSWER.

\$\\ \$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	666666666	666	6666666
	0000000000	777	77777777
	8888888	88	8888888



B	31
*1. Are you a boy or a girl?	
Y 1 Are you a boy or a girl?	8. Does the principal of this school know you by name
(i) Boy	
	1 O Yes
© Girl	② No .
, a	
2. How old are you now?	
and and and pour morn;	
(1) 9 or under	9. Is there any adult at this school you could talk to il
	you were upset or in trouble?.
② 10	
<u> ()</u> 11	, ~ O.Yes
() 12	· ②No
3 13 or over	, ,
A 2 mars 1 mars 2 mars	
3. Which of the following best describes you?	10. Have you ever had a black teacher as your regular *
. 0	'eacher? :
① Black	
(2) White	① Yes
(1) Spanish speaking	
① Other	② No
O Other	
· · · · · · · · · · · · · · · · · · ·	
	·a
4. Did you go to kindergarten?	12 House you was been a first to be a first
3 to managerien.	11. Have you ever been in a school that had a black
① Yes	principal?
② No.	
2 100	① Yes
\sim	② Na.**
	3
	-
5. Do you own a bicycle?	
The state of the s	
• (i) Y _i es	
② No	12. Have you ever been in a school that had a black gym
(C) (NO	teacher or coach?
•	
	① Yes
•	② No
6. How many brothers and sisters do you have?	
	•
① One	•
③ Two	, • • • · · · · · · · · · · · · · · · ·
3 Three	13. Has your mother or father visited school fluring this
⊙ Four	school year?
(5) Five	
•	① Yes
g (2) Seven	
(2) Eight or more	② No
	•
① None	
, in the second	
	14. Are you getting man halo t t t
7. Do you think you are better than most students at	14. Are you getting more help or less help from your
doing school work, about the same, or not as good	parents with your school work now than in the
us most students?	beginning of this school year?
as most students?	
	① More help
(1) Better	② Less help
② About the same	3 Same amount of help
3 Not as good	
	My parents never have helped me with school work
V	
ERIC	

15: Do you think your teacher likes you?	23. How about the principal of your school how do you think your principal feels about black and white students going to the same school together?
(S) No Sign of the Control of the Co	
	The principal likes it
16. If you could choose the kind of school you would	The principal doesn't like it
go to, would you pick one with	3 It doesn't matter to the principal .
the state of the s	
(!) All-white students	
* (*) All black students	4
- (i) A mixture of different kinds of students	74. Think of your shoot beat faired.
	24. Think of your three hest friends in the 5th grade
	in this school. Are they all the same race as you
17. In the 5th grade, have you studied anything about	or is one or more of a different race?
black people?	
	Tes, all same race as me
(i) Yes	3 No, one or more is of a different face
⊙ No	
10. 4	25. Would you like to have more friends who are of
18. Are any of the teachers in this school unfair to	a different racé?
white students?	
	① Yes.
(i) Yes	② No
(ž) No	
19. Are your parents satisfied with the grades you get -	26. Does your family have a telephone?
(1) Yes	T AS
(i) No	(1,140)
20. Do you live with both of your parents?	
20. Do you live with both of your parents?	
(1) Yes	
② No	27. Does your family own a dictionary?
(5)10	
	Yes Yes
	② No ·
21. What was the earliest grade you went to school 2.5	
with both black and white students?	
(1) Kindergarten	
() First	28. Are any of the teachers in this school unfair to
U.Second	black students?
(Dillind)	mack studients:
(5) Fourth	O Yes
(e) Fifth	l
(/) Never did	② No
()	
22. 11	
22. How do you think your teacher feels about black and	
white students going to the same school together?	, 29. Are you afraid of most teachers of a different
no.	, race from you?
My teacher likes it	
My teachers doesn't like it	Û Yêk
Olt doesn't matter to my teacher	② No -
₩ .	

(0) In general, do you think that white people are smarter than black people, that black people are	38. Is reading too hard for you now?
smarter than white people, or do you think that a person's color doesn't have anything to do with how smart he is?	Reading is too hard for me Reading is not too hard for me
(i) White people are smarter	39. Is arithmetic too hard for you nuw?
(2) Black people are smarter	
③ Color doesn't have anything to do with smartness	① Yes ② No •
r	
31. Did anyone at home read to you when you were	
little before you started school?	40. Does your teacher or someone else at school
,	give you special help with your reading?
Yes	
② No d	① Yes
	③ No
32. Does your family own their home?	
① Yes	41. Do you think most of the rules in your classroom are fair?
° ② N₁ ,	
	① Yes
	② No
33. Did your mother graduate from high school?	
Acres 1 to the second second	42. Do you play with children of another race on a
(1) Yens	team at school?
Ø No €1	
	① Yes
	③ No
34. In the past week, did you think any of your	
school work or homework was fun?	43. Does your teacher ever assign you to work on school
① Yes	work with a student of another race?
② No *	① Yes
• • • • • • • • • • • • • • • • • • • •	③ No
્ર	
£.	
35. How do you feel about school?	
	44. Are you satisfied with yourself?
Lusually like school	
② I usually hate school	① Yes
	③ No '.
36. At school, are you often blamed for things that	45. Are some kids just naturally lucky?
just aren't your fault?,	
	' ① Yes
① Yes	② No
⊘ No	
•	
22 Domini Blo mana assettana	46. Do you think you can do things as well as most
37. De ou like your teacher?	students can?
. Vnc	0.V '.'
(2) No	① Yes

47. Do you feel like you don't really belong in this school?	54. Do you think it doesn't pay to try hard because things don't turn out right anyway?
(i) Yes ② No	① Yes ② No
48. Do you think most people are better off than you are?	55. When you make plans, are you almost sure you can make them work?
(1) Yes	① Yes
② No	@ No
49. When you take a test, do you get so nervous you	
Can't think straight?	56. Does your teacher spend a lot of time getting the kids to belfave?
① Yes ② No	① Yes ② No
	e e
50. Do you think good luck is just as important for success as hard work?	57. Would you say you are very happy, pretty happy, or not too happy these days?
	o
① Yes ② No	○ Very happy
9 (40)	② Pretty happy ③ Not too happy
	O Not too nappy
51. Do you got really angry when teachers try to make you do things you don't want to do?	58. Do you think you will go to college?
① Yes	① Yes
③ No	② No
52. Have you been in any fights at school this school year?	59. Were you a student at this school one year ago?
	① Yes
1 I have been in fights 2 I have not been in fights	② No-
a nave not been in rights.	en en en en en en en en en en en en en e
	60: How do you usually get to school?
53. Does your family get a newspaper regularly?	Walk or bicycle School bus
(1) Yes,	③ Car ♥
③ Nó	Some other way
THANK YOU FOR TH	E TIME AND HELP
YOU HAVE GIVEN	TO THIS STUDY.

DO NOT
MARK
ON THIS
PAGE

302

ERIC

SURVEY TEST OF **EDUCATIONAL ACHIEVEMENT**

5th GRADE FORM

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PART I		READING		
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EXAMPLES	30900	60000	9000	11 (A) (B) (C) (D)
1000	40BCD	7000	10 (((((((((((((((((((12@@@
2000	5 (A) (D) (A)	80900		•
PART II	ECH	IANICS OF WR	ITING	
EXAMPLES	16@@©@	20 A B C O	24@@©@	28 (A) (B) (C) (D)
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14.0000	18@@©@	22()B()O	26 @ ®©©	30 A B C O
15 (A (P) (C) (D)	19@@©©	23 (((((((((((((((((((27@®©©	
PART III	MATHEN	IATICS COMPL	JTATION	· · ·
EXAMPLE	32 <u>@</u> @©	35 A B C D	38 A B C O	41.A.B.C.O
31 @ @ @ @	33 🛭 📵 🖒 🗇	36ABCO	39 (A) (B) (C) (D)	42 (A) (B) (C) (D)
	34 A B C O	37 🛭 🗑 🖒 🗇	40 A B C D	43 A B C O
PART IV	MATHEMAT	ICS - BASIC	CONCEPTS	
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EXAMPLE	45 A B C O	48 A B C O	51@9©0	53ABC0
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•	47 🛭 🗓 🔘 📗	50 A B C O	, re	
PART V	- <u> </u>	SCIENCE		
EXAMPLE	56 A B C D	59 A B C O	62 (A) (B) (C) (D)	64 A B C C
55 A B C D	57 (A) (B) (C) (D)	60 A B C O	63 @ @ @	65 @ @ © ©
	58.A.B.C.O	61ABCO		
» "		•		

Number _____



SURVEY QUESTIONNAIRE

10th GRAPE FORM

Educational Testing Service Princeton, New Jersey

February, 1974

We are talking with students, teachers, and principals in many places across the United States and we need your help. Your answers to the questions in this booklet are important in letting us learn how to improve schools.

We hope you enjoy thinking about these question:

Thank you for your help.

DIRECTIONS

READ EACH QUESTION CAREFULLY, MARK YOUR ANSWER BY FILLING IN THE CIRCLE NEXT TO THE ANSWER THAT BEST DESCRIBES YOU OR WHAT YOU THINK: MARK ONLY ONE ANSWER FOR EACH QUESTION. IF YOU WISH TO CHANGE AN ANSWER, ERASE YOUR FIRST MARK COMPLETELY. USE ONLY A No. 2, OR SOFTER, LEAD PENCIL.

EXAMPLE:

Are you in the fifth grade or in high school?

- 1 Fifth grade
- High school

YOU WOULD FILL IN THE CIRCLE NEXT TO "HIGH SCHOOL" FOR YOUR ANSWER.



(2) 10th Grade (Sophomore or Freshman) (1) 11th Grade (Junior or Sophomore) (12th Grade (Senior) 2. Are you a male or a female? (1) Male (2) Farnale

3. How old are you?

14 oi under

② 15

(3) 16

④ 17

⑤ 18 or over

4. Which of the following best describes you?

(i) Black

(2) White

3 Spanish speaking

(4) Other

5. How much education thes your mother have? (If you don't know, it's a int to guess.)

(Did not go to high schame

(2) Went to high school but didn't graduate

(i) Graduated from head section

Attended college

Graduated from colless

6. Do you live with both cof your parents?

(i) Yes

② No.

7. How many brothers and sisters do you have?

② Two

Three

Four

3 Five

⑥ Sìx

Seven Beight or more

(9) None

8. Does your family get a newspaper regularly?

② No

9. Does your family own their home?

. ① Yes

② No

10. Are you a member of any school clubs or sports teams?

1 Yes

② No

11. Which one of the following best describes the program or curriculum you are enrolled in?

1 Advanced or special college preparatory

② College preparatory

3 Business

Vocational

Work study

General

① Other

On't know

00000000000 000000000000000222 @@@@@**@**@ 33333335 333 **@@@@@@** $\Theta \Theta \Theta$ **⑤**⑤⑤ 666 666666696 **ᲗᲗᲗᲗᲗᲗᲗᲗᲣᲚ** ଉପପ 888888 00099999999 999

SHADED AREA FOR OFFICE USE ONLY

i .	12 Did you enter that program by your own choice, were you advised to enter it by teachers or counselors, or were you assigned to it?	19. In the past week, did you do any school work or homework that was interesting?
		① Yes
	(i) My own choice	② No
,	(2) Advised by counselors or teachers	
	3 Assigned	20. Have either of your parents come to school this
	① Don't know	year for PTA, parents' days, or for parent conference
	12 During this school was how and the in	
	13. During this school year, have you ever talked with a counselor?	① Yes ?
	① Yes	21 488
	② No	21. When a teacher says that she is going to give the class a test, do you become afraid that you will
	① Don't have a counselor	do poor work?
•		
	14. Think about most of the work you have to do in	① Yes
	school. Is it too hard, too easy, or just about right?	② No
	① Loo hard	22. At school, are you often blamed for things that
	② Too easy	just aren't your fault?
	③ Just about right	
••	40.00	① Yes
	15. How do your parents feel about the grades you	② No
2.	Signature get in school?	
	① Very satisfied	23. Was the elementary school you went to for the
	② Somewhat satisfied	longest time —
	Somewhat dissatisfied	0.45
	(4) Very dissatisfied	① All white ② Mostly white
	⑤ I don't know	(3) Mostly white
•		(a) All black
٠ . ز	16. Forget for a moment how teachers grade your	(3) Other
	school work. How do you rate yourself in school	
	ability compared with those in your class at school?	∀
		24. Was the junior high school you went to for the
•	① I am one of the best	longest time -
	② Lam above average	
	③ I am average	① All white
	4 I am below average	Mostly white
٠.	(5) I am one of the poorest	3 Mostly black
	a a	All black
	17 Do you think you have the ability as second a way	3 Other
	17 Do you think you have the ability to complete college?	Didn't go to junior high
	① Definitely yes	,
	② Probably yes	25 House was back a black
	③ Probably no	25. Have you ever had a-black-teacher as your regular teacher?
	(4) Definitely no	teachers.
	3 Not sure either way	① Yes, in this school
•		② Yes, in another school
•		③ No
	18. How much time do you usually spend doing	
	homework after school?	
		26. Have you ever been in a school that had a black
	① None, or almost none	principal?
	② Less than 1/2 hour a day	languar eta erregia eta erregi
	① About ½ hour a day .	① Yes, in this school
	(a) About 1 hour a day (b) About 2 hours a day or more 306	② Yes, in another school
	. (c) Alimin 7 liming a 1	
	(3) About 2 hours a day or more	③No ↔
EDIC	(3) About 2 nours a day or more	③No ↔

27 11	
27. Have you ever been in a school that had a black physical education teacher or coach?	
(1) Yes, in this school	
(a) Yirs, in another school	
⊙ No	
28. How do you think most of your teachers-feel about	1
blacks and whites going to the same school together	?!
① They like it	
. (i) They don't like it	
(5) It doesn't matter to them	
① Don't know	
29. How do you think your principal feels about black and whites going to the same school together?	s
The principal likes it	
(2) The principal doesn't like it	
1 It doesn't matter to the principal	
① Don't know	
30. Think for a moment about the three students you	
talk with most often at this school. Are they the	
same race as you?	
(1) Yes, all same race as me	
(2) No, one or more is from another race	٠.,
31. Have you ever called a student of a different race	

32. This school year, have you helped a student from

33. This school year, have you asked a student from another race to help you with your homework?

34. If your could choose the kind of school you would

3 A mixture of different kinds of students

another race with school work?

go to, would you pick one with:

O All comite students....

② All brack students =

More likely for a white student	
More likely for a mount	
Black students and white students	s just
as likely	
There is no such activity in this so	chool _
37. 1 2 3 N Play on the football team	
38. 1 2 3 N Play on the chess team	
39. 1 2 3 N Give own ideas in class	
40. 1 2 3 1 Serve on a school committee	
41. 1 2 3 N Be a cheerleader	
42. 1 2 3 N Win a scholarship	
43. 1 2 3 N Belong to the scholarship club	<u>, , , , , , , , , , , , , , , , , , , </u>
44.1 2 3 N Play in the band	
45.00 @ Play in the orchestra	
45. 1 2 3 N Be in the school government	
47. 1 2 3 @ Take leading roles in a school play	/
48. 1 2 3 N Take an advanced math class	÷.
49. 1 2 3 N Take auto mechanics	29
50. 1 2 3 N Take a foreign language	
51. 1 2 3 N Take home economics	•
52. 1 2 3 N Take typing	
53. 1 2 3 N Give a speech in an assembly	
54. 1 2 3 N Sing in a glee club or choir	
55. 1 2 3 @ Play on the basketball team	ه.
	1.0

56. 1 2 Whose students complaining that favoritism is

heing shown to black students.

57. ① ② Black students complaining that favoritism is being shown to white students.

58. 1 2 Tensions have made it hard for everyone.

59. Are any of the teachers in this school unfair to

35. Do you think your friends would think badly of you if you went someplace after school with a

36. Would you like to have more friends who are of

student of a different race?

① Yes ② No

① Yes ② No

a different race?



on the phone?

① Yes ② No

① Yes ② Ño

1 Yes

No

Other

black students

① Yes

② No

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① Man ② Woman 3 08	① Yes ② No
	75. Is there any adult at this school you could talk to if you were upset or in trouble?
Now answer three questions about this person.	75 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Think of the come adult you like best in this school.	
	② No
② Na	① Yes
① Yes	74. Do you think most of the rules in this school are fair?
65. Are any of the teachers in this school unfair to white students?	3 Paul Lawrence Dunbar
65 Arg and of the control of the state of	② George Washington Carver
School does not have both black and white students	
(i) Worse	
② Same	73. Which one of the following was a scientist?
(i) Better	
better or worse next year?	② No
whites in this school, do you think things will be	① Yes
64. The way things are going between placks and	that you should go to college?
① Color doesn't have anything to go with smartness	72. Has any adult here at school ever told you, personally,
(2) Black people are smarter	72 Has and add to
(i) White people are smarter	
	② No
how smart he is?	① Yes
a person's color doesn't have anything to do with	not to quit high school?
smarter than black people, that black people are smarter than white people, or do you think that	71. Has any adult here at school ever told you, personally,
63. In general, do you think that white people are	The second secon
	② No
No such discussions so far	① Yes
(3) Every few months	Your crasses this school Agail
About once a week or more often About once a month	70. Have you discussed the Arab Israeli war in any of your classes this school year?
(I) About once a work or many	70.11
intergroup relations?	② No
62. How often do you have class discussions about	① Yes
S react at an unconnuctable	your classes this school year?
 Occasionally somewhat uncomfortable Nat at all uncomfortable 	69. Have you discussed women's liberation in any of
Generally somewhat uncomfortable	
. Generally very uncomfortable	③ Other
The second secon	② Black
of a different race?	① White
G1. Now uncomfortable do you feel around students	68. Third, is your favorite adult white or black?
(5) It has done as much harm as it has done good	
(a) It hasn't really accomplished anything	Some other job
 Somewhat effective; it has helped a small amount 	A guard or policeman
② Effective; it has helped	Assistant principal
① No such committee	① / counselor ① The principal
races are going to the same school?	② An assistant to a teacher
solving problems that came up because different	① A regular teacher
school, how effective has the committee been in	des the same you like bist have?
60. If you have a bi-racial student committee in your	A-41 67. Second, what job dues the adult you like best have?
	A _ // 1

76. Have you been in any fights at school this school year?
(4) Yes
Ø No
77. In the past year, were you ever sent to the office
because someone thought you were breaking some school rule?
1 Yes, only once
② Yes, two or more times
① No
78. During this school year, did you ever stay away from school just because you didn't want to come?
(i) Nove
② Yes, for 1 or 2 days
3 Yes, for 3 to 6 days
(4) Yes, for 7 to 15 days
3 Yes, for 16 or more days
In general, do you tend to agree or disagree with each of the following?
Art. 3de
be O's.
79. 1 3 When bad things are going to happen, they just
are going to happen no matter what you try
80. 1 2 On the whole. I am satisfied with myself.
81. ① ② Good luck is just as important for success as
hard work is."
82. ① ② I feel I do not have much to be proud of.
83. ① Some kids are just naturally lucky.
84. ① ② I feel like I don't really belong in this school. 85. ① ② When I make plans, I am almost sure I can
make them work.
86. 1 2 Most people are better off than I am.
87. 1 2 Most of the time it doesn't pay to try hard
because things never turn out right anyway.
88. Everything considered, are you very happy, pretty
happy, or not too happy these days?
⊕ Very happy
② Pretty happy
3 Not too happy
89. Do you like the principal of this school?
① Yes
② No
90. Do you think you will go to college?
① Yes
② No

	. In the morning, are ye	nil Hen	ام برالد	ad to do	
	to school?	on usu	ану ун		
			-	3 · 4	
	① Yes				
	② No			•	
92.	When you get punishe	d at so	hool,	does it u	isually
•	seem it's for no good				, ,
	(i) Yes				
	② No				
93.	Do you usually hate so	chool?	••		
	Ω γ-				
	① Yes				
	② No				
94	Mara you a student	•1.i	ا محمل	• .	•
94 :	Were you a student at	cuis so	nool	o le year	ago?
	① Yes	*;		٠,	
	② No			~~~	
	9110		.,		
95	How do you usually go		اممداد		
				dyigaze ព្	iark
•	only one)?				-
•	only one)?	e.	*14		
		Ç.	*14	••	
	① Walk or bicycle		•••		
	① Walk or bicycle ② School bus	g.	- n	1. v *	
	① Walk or bicycle ② School bus ③ Car	ę.		i Nati	
	① Walk or bicycle ② School bus	E	ж. Д.		
96.	Walk or bicycle School bus Car Some other way	laved s	t.	studos	of
96.	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you pl			student	of
96.	Walk or bicycle School bus Car Some other way			student	of
96.	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you planother race on a team			student	of
96.	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you planother race on a team ① Very often			student	of
96.	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you planother race on a team ① Very often ② Often			student	of
96.	1 Walk or bicycle 2 School bus 3 Car 4 Some other way How often have you planother race on a team 1 Very often 2 Often 3 Sometimes			student	of
96.	1 Walk or bicycle 2 School bus 3 Car 4 Some other way How often have you planother race on a team 1 Very often 2 Often 3 Sometimes 4 Seldom			student	of
96.	1 Walk or bicycle 2 School bus 3 Car 4 Some other way How often have you planother race on a team 1 Very often 2 Often 3 Sometimes			student	of
•	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you planother race on a team ① Very often ② Often ③ Sometimes ④ Seldom ③ Never	at sci	nool?		
•	1 Walk or bicycle 2 School bus 3 Car 4 Some other way How often have you planother race on a team 1 Very often 2 Often 3 Sometimes 4 Seldom 3 Never	nat sel	nool? Se do	you thin	k the
	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you pl another race on a team ① Very often ② Often ③ Sometimes ④ Seldom ⑤ Never In general, how mitch if	nfluen	nool? ce do ave in	you thin this scho	k the
	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you pl another race on a team ① Very often ② Often ③ Sometimes ④ Seldom ⑤ Never In general, how mitch if	nfluen	nool? ce do ave in	you thin this scho	k the
	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you planother race on a team ① Very often ② Often ③ Sometimes ④ Seldom ⑤ Never In general, how much if following groups of per For each of these group	nfluences in y	ce do vave in	you thin this scho	k the pol? ase
	① Walk or bicycle ② School bus ③ Car ④ Some other way How often have you pl another race on a team ① Very often ② Often ③ Sometimes ④ Seldom ⑤ Never In general, how mitch if	influences on some hose in year	ce do ave in our scl r the v	you thin this scho nool, ple way you	k the ool? ase r schoo

1	entire of the mittaence
	Some influence
	Moderate influence
`	· Considerable influence
	A great deal of influence
ာ်စွဲတွဲ 🕳 🧿	The school board
	The superintendent
00040	The principal
02343	The assistant principal
00000	
00005	You, yourself
0000	Students
2343	Parents
֡	

105. How often has your reacher assigned you to we can schoolwork with a student of another race?	
(1) Very often	OYes, it is easy to find books about both famous
(3) Often	black people and famous white people.
() Sometimes	②It is only to find books about famous
(4) Seldam	hlack prode
③ Never	Jit is only easy to find books about famous white people
106. A black person couldn't be principal of this	(a) It is not easy to find any books in our library.
high school.	
(DStrongly agree	
(2) Agree	
() Disagree	
(4) Strongly disagree	
column headed "MOTHER" and the occupation not have either a mother or a father, but there	k over the list and check the occupation of your mother under the n of your father under the column headed "FATHER". If you do is someone who takes either or both of their place(s) (such as a bout-this person. If you do not have either a mother or a father aces, leave the column blank.
MOTHER FATHER	
	eman nine forenan
	er: such as baker, boilerman, hricklayer, carpenter, electrician,
	er, machinist, mechanic, plasterer, plumber, printer, roofer, sheet
	tailor, tool and die maker, upholsterer.
	orker: such as apprentice, assembler, bus driver, delivery man, factory
	acker, truck driver, weaver, welche.
	car washer, fisherman, gardener, gas station-attendant, laborer,
longshoreman, lumberman,	
	Home: such as cook, housekeeper, maid
	n as barber, bartender, elevator operator, hairdresser, hospital
	or, restaurant cook, usher, waiter.
	: such as detective, fireman, guard, policeman, sheriff, watchman
	ant, actor, architect, artist, athlete, dentist, doctor, druggist, engineer
	, lawyer, librarian, minister, musician, nurse, reporter, scientist,
social worker, teacher, veter	
	chnician, designer, diétitian, draftsman, medical technician, photo-
grapher, radio operator, sur	
(ii) Farmer: such as farmer, ranch	
	oreman, farm laborer, migrant worker.
	ractor, restaurant owner, store owner, wholesaler.
(ii) Manager or Official: such as b	ouyer in store, executive in large company, government official,
office manager, sales manag	
•	teller, bookkeeper, cashier, dispatcher, messenger, office clerk,
	ephone operator, ticket agent, typist.
	or, insurance salesman, real estate salesman, sales clerk in store.
(ii) - (iii) Housewife.	, and decided for the state succession, successing in \$1016.
Prousevite. Retired.	Viz.
(1) Unemployed.	
1 don't know.	A. Same
<u> </u>	The state of the s

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APPENDIX B

PARTIAL CORRELATIONS BETWEEN SCHOOL PROCESS VARIABLES AND STUDENT RACE RELATIONS AND ACHIEVEMENT OUTCOMES

	٠.	rage
ifth Grade		B-2
enth Grade	· · · · · · · · · · · · · · · · · · ·	B-15

Fifth Grade

Partial Correlations between School Process Variables and Student Race Relations and Achievement Outcomes

Achievement Black White	04050414010305 .04 .05 .040808080809071010100711 .141004 .090711 .111915 .19	
Personal Racial Actitude Black White	.00 .21 .04 .15 .05 .10 .01 .00 .1825* .10 .19 .08 .10 .20 .19 .20 .15 .20 .15 .20 .15 .21 .22* .21 .22* .22 .23* .20 .16 .30 .16 .31* .01 .08 .04 .06 .01 .06 .01 .06 .01 .06	,
Perceived School Racial Attitude R Black White	.17 .11 .02 .05 .20 .20 .24 .24 .24 .25 .20 .30 .03	irtialed out.
Scale Direction	high = yes high = yes high = yes low = agreement low = agreement low = agreement high = no high = no high = no high = no high = no high = no high = no high = no high = no high = no high = no high = no high = no high = no	bourn tocation mave been partialed out
<u>Description</u> , Attitudes	Black students better off in mixed. White students better off in mixed. The amount of prejudice is exagged. Like to live in integrated neighbort in the stand whites should not integration. Blacks and whites should not integration. Black failure due to white restrict action. Students like desegregation. Principal likes desegregation. White teachers like desegregation. Black teachers like desegregation. Evaluate desegregation. Evaluate desegregation. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense. The school atmosphere is tense.	
I.D. Loading T-1 Teachers Racial Attitudes	70025 .69 Black 26 .83 White 62 .63 The a 6384 Like 6447 Civil 65 .83 Black 66 .83 Black 72 Support for Integration 71-2 Support for Integration 190 .89 Princi 190 .89 White 191 .89 Black 7-3 Absence of Tension 7016582 Evalua 166 .60 More fi 047 .61 The sect 177 .71 Black of 176 .58 White 177 .71 Black of 177 .71 Black of 178 .58 White	* PC.05 ** PC.01

able B-1 (Continued)

Fifth Grade

I.D. Loading Description	Scale Direction	Perceived School Rectal Attitude	Personal Rectal Arrived		•-
	9			Achieven	
T-4 Teachers' Job Attitudes			DIGCK WOILE	Black White	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3	.2015	.25 .04	.10	_
60.	high = no	.1708	.21 - 00	,	
43 .40 Range of ability makes teaching hard	high = no	1.9			
44 . 61 No one to share responsibility	•	.01	ני	.07	
46 65 Don't have the training needed			90 90	.0305	
T-5 Internetannel Deleteration	ou = ugru	.19	.23* .08	07 ° a . 56	•
STATE OF THE LODG VICE STUDENTS		.1435**	, 10	20	i
TQ253 .81 How do you and black parents get alone	Hotel a second				ı
		. 25	.26* .17	1823*	
חיים איים שיים איירים לימורים אפני פ	high "Warm, open		.29** .15	15	· . •
5	high - warm, open	.1029**	*		Ğ
CQ.	high = warm, open	.05		آه ا	
261 . 68 How do black and white students get along	high - warm,		13 18		
T-6 Interpersonal Relations among Teachers	¢		**	07. 00.	İ.
		90.	31	3929	
14221 .87 How do you and black teachers get along	high - warm, open	.19	30 31 -		*
252 .77 Kow do you and white teachers get along			٠	•	<u>ن</u>
			•	٠.	·
1		01.	26 .06	39**29**	*
18dibutia 10 dinata and the control of the control	ı	25	15 - 06	, L =	ı
TQ250 .86 How do you and the principal get along	hioh * uarm onen			-	Ι.
257 .88 How do the principal and teachers set alone	, do		0201	40	*
258 .91 How do principal & black gradents and	MIRA HIRT	•	-,1205	\30** - 21	
		.02	.0503	09	
o principat a witte students set along	8 high = warm, open		.06	1308	
	· .				

Table B-1 (Continued) Fifth Grade

I.D. Loading	Bescription	Scale Direction	Perceived School Racial Attitude	School	Personal Racial Atti	Personal Racial Attitude	Achievement	ment
e a		•	Black	White	Black	White	Black	White
T-8 School Autonomy	X		12	.26	.07	12	29	-,23
TQ26262	Influence of school board	high = much	70.	03	20	.03	. 0.	08
26363	Influence of superintendent	high - much	\$.07	15	.05	.17	05
266 .68	. Influence of black teachers	high = much	8.	.33*	01	71.	20	04
267 .83	Influence of white teachers	high = much	07	.16	03	.01	-, 30*	21
	Jnfluence of black students	high - much	16	-,10	90.	14	15	29##
	Influence of white students	high = much	11	.02	90.	13	-,31**	33**
271 .72	Influence of black parenta	high = much	02	.10	12	06	.01	13
272 . 55	Influence of white parents	high - much	01	.16	.03	09	11	04
T-9 Teacher Autonomy	пу ,		08	.23*	.01	14	21	17.
TQ24255	Choice of jobs in this school	high = a lot	.21	.28	.25	.13	04	.05
244 .38	Choice of kinds of students	high = a lot	n	07	06	-,14	28	21
	Choice of textbooks	high = a lot	03	. 14	08	, 20	25*	17
٠	Choice of own routine	high - a lot	16	05	01	17	02	.17
	Choice of own teaching style	high = a lot	01	.00	ı.	15	15	.14
, 268 .68	Your influence	high - much	- 04	.20	90	05	28	13
T-10 Inequality of	T-10 Inequality of Black and White Students		-,14	05	90.	02	02	.12
тQ273 .35	Unequal support for deseg: B & W teachers	high - bad	23	09	02	.10	12	8.
274 .39	Unequal friendliness: B & W teachers	high = bad	31 **	10	8	07	π.	.010.
276 .03	Unequal friendliness: B & W students	high = bad	18	14	13	28	.02	.16
27768	Unequal friendliness: Prnts. B & W students	s high = bad	08	04	01	-,02	90.	Į,
278 .75	Unequal influence: B & W. teachers	high - bad	.10	.07	.22	70.	.12	
					. <u>.</u>			•

			Table B-1 (Continued)					e	3
	•		Fifth Grade						
						•			
I.D. Loading	Description	tion	Scale Direction	Perceived School Racial Attitude	School	Personal Racial Attitude	nal tritude	Achievement	Bent
T-10 Constanted				Black	White	Black	White	Black	White
		•	• .	 1		·**			
280	Unequal influence: B	3 3	high = bad	80.	02	.15	.10	.10	90.
	Unequal intidence: B		high = bad	01	60.	- 10	05	18	.11
	Unequal black and this to w Stude	5		21	09	05	00.	.02	13
283 .48	Unequal B & W orada langla	e discipline problems	H .	8	15	10	08	.01	.11
284 .62	Unequal teacher fairness	ver periormance		14	04	06	01	15	.13
T-11 Downer 1 D	, , , ,		nığı = Dad	02	.22	.07	01	12	80.
1-11 retreived Kaci	Kaciai Difterences			19	04	.01	96.	70 -	"
	Black and white boys:	Activity level	low - no difference	11	10	.20	70	70	1 -
4		Read better	low = no difference	16	07	70	.05	* 0° 1	-5 57.
, 221		Musical	low = no difference	70.	.20	.07	.03	20	9
. *	a /		low - no difference	23	.03	07	.14	01	.18
223			low = no difference	29	14	09	8.	- 05	17.
		Quicker to catch on	low - no difference	32	14	17	09	.03	.08
		More attentive	8	24*	18	08	11	.05	.17
	· ·	Like to learn better	0u .	27	07	02	-,13	05	90.
\$ 227 .80			2	14	60.	10.	.05	90.	.13
			0 •	13	- 00	01	.02	.05	.23
		Cause more trouble	low - no difference	27 _"	10	.01	00.	.07	.12
•	Black and white attle.	weed more nelp	2	19	- 00	.03	06	05	. 10
231 .82	STITUTE PRITOS WELLYLEY IEW	activity tevel		15	07	.10	90.	04	.07
, ;		Kead better	low - no difference	÷00°-	*0 .	08	.03	.02	.11
	•	Musical	low = no difference	07	u.	8 0.	02	21	-,06
•			•					_	

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		3		Fifth Grade							
:	1.D. Loading	R Description	Ion	Scale Direction	Perceived School Racial Atritude	ed School Attitude	Personal Racial Atti	Personal Racial Attitude	1,	Achlevement	ent
·	T-11 Continued			٠	Black	White	Black	White		Black	White
	TQ233 .73		Athletic	low = no difference		.01	, 0,-	.19		.12	.25
			Adjusted to achool ; Quicker to catch on	low = no difference low = no difference	16	· .00 03	15	01		08	.19
٠.	-		More attentive Like to learn better	low = no difference low = no difference	22*	18	- 03	10			3. 7. 5
•	238 .75 239 .82		Get along better Achievement oriented	low = no difference low = no difference	22*	90.	04	.10			89.
\ .\	240 .62		Cause more trouble Need more help	low = no difference low = no difference	26	09 05	-, 14	80	•		26. 12
3	T-12 Desegregation Process	Process			17	12	.05	.03		. 10.	24.
17		Minority groups demand ethnic studies All students learning more	etinic studies	low = yes low = yes	04	06 28	22*				01
· • :	17.0 0/1 17.1 186	White students becoming less prejudiced New educational programs improving schools		low m yes	09	09	15		, '		. * 2. et.
	T-14 Teacher Training	, Su					_				
•	т0028 .95	Amount of in-service training	aining	hooh m mooth	17:	60.	70.	60.		10	50
٥	٠.	Had training this year	÷	1 1	.23*	.08	.09	.10		.14	50.
,	175 -27	Evaluation of training		low " valuable	09	12	03	.11		.26*	.20
•		Traverse cuanted curinters	20	high = yes	.03	.01	.02	14		- 70.	08

Table B-1 (Continued)

Fifth Grade

Achievement	Black White	25# 22#			0525	١.	.28" .27"		15	60	**** *********************************			1				1606	.02 .10			•	.00	60' 90'
Personal Racial Attitude	White	~ O) T.	11	(/)	80. E		37"	.26*	22*			((, -	3	2 8	-, UZ	60.	70.		50	61	÷0	.02
Per Racial	Black	33 48	416	**	7.		c1.		43	.26*	28*	.35**	. 64.	. 4	70		717-	01	12	98	91 -		60.1	02
Perceived School Racial Attitude	White	.11				•	07		21	.19	15	.17	01.	92.	22#	5	20.	+1.	02	- 12	90	6 8	9	17
Percety Ractal	Black	. 26	,35##	- 40 _{4 +}	1 33 kH		2		18	.13	10	.25*	06	 8.	90	0, -		CT*	13	11.	36.		1	05
Scale Direction			low = yes	low = many	low = many	low - helpful	low = helpful		2	low = no	low = often	high = many	low = yes	low = yes		low * helpful	low # helpful	Interest and	tow - helpful		low - helpful	low = helpfui		lov ₹ helpful
Description	14	Bluation	Many students won't try to learn	Number of white students at grade level	Number of black students at grade level	Achievement grouping of classrooms	Achievement grouping within classrooms	Practices		Projects on intergroup problems	Class discussion on race	Number of years with students of other race	Multi-ethnic texts	Demand for ethnic studies	Services	Helpfulness of guidance counselors	Helpfulness of social workers	Helnfulness of washing 1412		Evaluation of Human-Relations Programs	Helpfulness of parent-teacher contact	Helpfulness of intergroup relations among S		I Sucus sucrements of Turkerstone relations among I
Loading		venent Bva	.80	75	78	.54	. 59	Relations		\$0.1 \$0.1	78.	10	ęć.	\$C.	tion of S	78.	.81	89		ation of	.61	.84	67.	•
1.b.		1-13 Achievement Evaluation	TQ042	178	179	707	205	T-16 Race Relations Practices		10038	S	ጽ ፣). 	707	T-17 Evaluation of Services	T0195	961	197	- 1	T-18 Evalu	T0210	211	212	

(Continued)		Grade
B-1	.,	Fifth
Table		24

Achigovement	VI) Le		101	=	80° 00°	-, 01	.04	.18	.200	.22	.00 - 00°	۱.	90. 15.	.20 .05	.27 .10	20.	F. C		.0007	0210	1924	70 70.	13	1511	.31**	ı	.00	05
Personal Racial Attitude	त्र के लिल में के कि			9 • • • • • • • • • • • • • • • • • • •		γn' γn'-	.27	.0415	115	1	04	- 11		.26 .06	10 ^ .08	08	.04				03	.04	0801	.11 ,00	17	.1405	1102	.04
Perceived School Racial Attitude	Black White	<u>.03</u>	1 **	, 43 Y7	Section 1		<u>.</u>			1	60. 60	.13 .05		-,	•	11.	1422	.00	1			•	.14 .20	80°- 90°	.01 ,02	90 00.	.1406	.17
Scale Direction	,		94144	low feeters		1		low = helpful		low = helpful			low m yea	10t = 20] OH = 110			high = agreement	high = agreement	×		۱ ۱	•	high = agreement	Ħ	1	high = agreement	high = syreement
Description		Institute Long Programs	Teather training	Romeijaj Reading	Vocational training	Underachlevers classes	Classes for maladjusted	Achievament grouping of classes	Achlevement grouping within planes	Tutoring		18 K	Team teaching	Extra time on reading	Extra time on math	d-Context Assistant	ת הפוורפנפת עוניונחקפט	Regular routine	Students work best at what they prefer	Sit still; pay attention	Praise is best	Explore environment	Textbooks important	Leas attribution	Outet orderly olsesson	Busy active softs:	Series in the state of the stat	stauchts sinuta express reelings
I.D. Loading		1	65. neiji	194 . 56	200 .48	202 .69	203 .59	204 .62	17. 205	209 .38	T-20 Pytra time on tool.		ET001 .15	06. 50	16. 90	T-21 Teacher vs Child-Centered Assistant	1110	ET008 .62	95 60	10 .72	11 01	12 54	13 .73	14 - 29	15 .82	16 = 66	ر 1	

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Fifth Grade

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ement	Illite	1 80,	-	09	08	.14	90.	07	-, 21	. 21	
Achievement	n)ack	.10	60.	.00	11	.08	. 18	13	16	90.	9
Personal Racial Attitude	White	.03		11	01	.07	11	08	27*	.02	g
Pers Raciul	Black	.02	90	07	00	.10	00.	.02	21	01	90 -
Perceived School Racial Attitude	White	07	0v	.02	.07	. 21	21	.05	07	04	.17
Perceive Racial	Black	10	07	01	• • •	. 24	•1.10	16	25*	17	.13
Scale Direction			high = no	lilgh = yes	hteh = 200	high a passocian	Sitto9/cane		high m often	nign = often	nigh # often
Description			Students must raise hands to talk Individual instruction	Free student movement	Notae level	.73 🔅 School strictness			warn Brudent Give directions	Praise	
1.D. Loading		31	. 68	84	77	.73 \$	18 Style	. 61	77.	.35	71.
1.D.	T-22 Sermonne	PTOOS	22	23	24	TQ249	T-23 Teaching Style	70130	131	. 132	133

-- 38 **

-.34**

-.43

9 -.05

low m yes

low = yes low = yes

Racial mix at work assignments

Studied about black people

Racial mix at play

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-.13

-.23*

.22**

-, 30**

-.15 -.27* 74

-.30** -.32**

-: 10 ===

> low = yes low = yes 1оч ≃ уев

> > Racial mix at work assignments

9=2 Haelal Unniaer Practices (W)

9. .78

ES017W

42M 43M

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Studied abuilt black paople

Class discussions

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133

Praise Scold

.35 .74 .50 S-1 Racial Contact Practices (B)

ES017B 42B 4.18

daulul ais ne play

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90° 38°.

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> high . often high = often

.09

Table B-1 (Cill (pped)
Pifth Grade

		ı										-10											
ement	White		=	-,14	707	,u:	ڹ	70.	= -	***	:	<u>و</u> ا	, O.	117.	70	100	60		05	.03	77		. 11
Achievement	Black	6	70.	07	BO.	04		<i>ξ</i> ,	90	.12		13	CD:	.15	.16	00.	: n		- 00	.15	õti		60.
Personal	White	60		£0.	Ξ.	.24	_ U/	- 1	10	,14	!	£0.	14.	٤٥.	9.	-,01	20,		gn :	15	16.	į	₹,
Petsell Att	Black	.07	- 3	ő.	71.	.03	90'	٤٥٠	- 04	.11		.01	60.	01	12	18	90.	96	784	05	·.06	Tu:	, E
School Ltitude	White	60.	8	3 3	\$0.	. 29""	.12	07	02	01	6.0	50.	01	06	01.1	02	05	26*		/0.	67.	.22	* 5
Perceived School Rectal Attitude	Black	03	1	111	-,03		08	01	90.	. 10	0.7		03	00.	-,14	.19	,16	00		٠	. .	90'	* *
Scale Direction			high - yes	hich - van	high - gorden	irkii - akreement	low - agreement	low - agreement	low - agreement	low - agreement			high = no	high = no	high - no	high - no	high = no		h(nh = 22 = 11	Light - no problem	ı	high = no problem	high a no probles
Description		in rincipal a Kacial Attitude	Black stricting better off in mixed schools	White gittifinia hatter off in mined achools	Black failure due to white restrictions	The amount of prefudice to executive	DULATE TO THE TO THE STATE OF T	Civil Biohte. The militagraced neighborhood	Block of the state of the name	District and Whites should not intermarry	egration	The first that the first fact that	White teachers 14th Joseph Bullon	Riorb forchess 111- 3 - 2	Valle cachers, like desegregation	tour superior likes desegregation	Superintendent likes desegregation	P-3 Absence of Conflict: Discipline	Colfilet butweel teachers and narents	Conflict between teachers and administration	Confidence among contract actions and the contract actions and the contract actions and the contract actions and the contract actions and the contract actions and the contract actions are contract.		iduilict between teachers and students
Load III	1	BI B KBC	. 54	.73	.61	.73	- , 49	-,48		•	for Inte	1,	. 75	85	? ?		06.	of Confl	99.	.85	7.8	36	?
I.D.	D-1 D-4-14	r-1 reincip	PI 221	222	223	224	225	226	227		P-2 Support for Integration	P1243	267	268	269	07.6		P-3 Absence	P1192	196	200	30%	

fable B i (Continued)

Fifth Grade

							, 1	B-11										
A MERI	White	a ₁] <u> </u>	70	80.	.04	71 -	51	03	12	20.	.03	00.	.05	.05	.03	.02	.02
Ach Leve ment	Black	£8;-	ξ.	.	.00	06	16	17	.15	ė) ' ::	04	.05	08	02	00.	02	03	.05
	·- -																	
Personal Racial Attitude	White	71.	P; .	. 05	.10	çu.	12	11	02	14	04	.01	02	-:07	11	00.	.02	11:-
Racial	Black	10.		01	.01	00.	05	09	.03	60'-	03	.07	08	01	,05	05	.06 .02	i)
Perceived School Racial Attitude	Wilte	£1.	\$ T	10	.03	03	90.	04	02	.05	.03	.01	.12	11	.12	.07	.1.	•
Perceivi Racial	Black	70.	.08 3Ü.	.01	03 .06	/0'-	70:-	-,13	-104	-,02	- 10	- 106.	20	1111	90'-	-,I4	. 11.	
Stale Direction			ion low a serious problem	low = serious problem	high = no	- 1		low = serious problem	low = serious problem		- 100 L 00 40 440	low = serious problem	÷		low = serious problem.	n	low = serious problem	
<u>beset i pt ton</u>	P-4 Absence of Confiler: Raylal and	Conflict between reachars	Guililet betweed (gachers and administration low a serious problem	Conflict between Leachers and students	Is there a contingency plan Had faculty meetings on racial issues	P-5 Absence of Conflict: Ability Grouping	Confitch	Conflict between teachers and administration los a continue of the conflict between teachers and administration los a continue of the conflict between teachers and administration los a continue of the conflict between teachers and administration los a continue of the conflict between teachers and administration los a continue of the conflict between teachers and administration los and the conflict between teachers and administration los and the conflict between teachers and the	Conflict among teachers	Absence of Conflict: Instructional Change	Confilet between trachers and administrate	Conflict among teachers	P-7 Abacince of Principal's Personal Conflict	Working after school hours	Vorking weekends	Receiving phone calls at home	Evening functions at school	
Loading	of Conf	.88	.83	.27	.17	of Confl	. 73	. 80	.81	of Conf1	.92	203 .92	of Princ	. 86	90	ίψ.	90.	
1.D.	P-4 Absence	F1194	198	207	187	P-5 Absence	P1193	197	201	P f. Absence	P1199	203	P-7 Absence	PT 209	210	211	212	

Table B-1 (Continued) Fifth Grade

	White	1, 8	:	34	_	.43 **	-, 29**	-	- 24*		-12	*.		J .	- :	.a *.	45c		o-	, * <u>,</u>	, ~	,		. :-
Achlevement	\$, 87 -			-		•		·		•	20	4	01	11:	 	4.55	'	1.18			06		
Achie	Black	- 37 **	!	12	12	61.	33**	* :	76*	74	14	90	8	9	111	٠, .	66.	. 34 **	37	** 77	27*	22*	27*	n. 29
nal ttitude	White	28		77:	so:		16	5	31 #4	; <u> </u>	-,06	08] =	7 6		7	90.	11.	.04	-,02	60.	.05	01	06
Personal Racial Attitude	Black	18		70.	11.	12'	00'	.21	- ,072	1344	90.	10	9() =	.02		. 90 -	.23	-,18	90'-	-,15	00.	04	,03	00'
d School	Witte	15	90	6.	5 .1	61.	05	. 48	73.	00.	09	20	60	2.17	ָ ק	2)	.02	.09	.13	.05	,14	, 16	60.	.03
Perceived School Racial Attitude	Black	27	,,	•	5. 3	20.	-,10	. 29	6D' -	, 29 **	01	07	60	70.		. 36	=	-, 30 ⁸⁴	-:02	21	12	-,13	-,14	18
a le Ufrection			low a low percentage	not the perception		. de los percentage	und . Jon bercentage	low = low percentage	lo√ = low ercentage	low = low percentage	low = low percentage		low - few	Iow = fev	low = few	10v = Fey	low " feu		high = warm, open	high = warm, open	high - warm, upen	high - warm, open	high - warm, upen	high " warm, open
<u> </u>			Percent disadeuntaged	Percent of free action! husehes	the state of the s	retent parents college 6	Percent parents not beyond high school	Percent parents professionals	Percent parents unskilled	Percent family income over \$15,000	Percent family income under \$8,000		Number fights requiring treatment	Number of times lockers broken into	Number 😅 student robbertes	Number of attacks on a teacher	Number of robbertes of school property	P-10 Principal's fitter per Sanal Relativies	You and black teachers	You and white teachers	You and black parents	You god white parents	You and black students	You and white studen;
L.D. Juddan		Sa	. 14	.73	180	20.	٥٢.	76	.);	79	. 80	Behavior	, 54	01	. 84	.85	81	BI'B IIII		.78	91.	.84	. 89	ņ6.
<u>1.0.</u>		P-8 School SES	P1164	166	167	701	168	691	36.1	נלנ	172	P-9 Violent Behavior	PI 229	230 ′	231	232	233	trouted bi-d	PQL25	126	127	128	129	05 -

Table B-1 (Continued)

		!	ı						B~	13						1		•					
ement.	White	\$9.	86.	90	90.	oi.	30.		.03	. 6	79.		D.	10'-	00.	00		. 13	00.	02	-, 10	80.	.03
Aulitevement	Hlack	20:	.21	11.	. 12	, o.	=		12	b))' -			11	91:	.11	ra.	01.	60.	.10	12	. 02	-, 10	.15
Personal Racial Attitude	Wite	11	01.	00.	-,13		12	;	<u> </u>	EO.	23*	3	000		60.	03	10	90.	07.	05	02	00.	19
Per Racia	Dlack	17.	.24*	90	13	31	÷:		.02		03	2		ZU'-	05	JD.	60.	09	60,	:03	90,	• 05	13
Perceived School Racial Attitude	B I TILL	=	80.	/1)'-	20	99°-	71:-		.11	61.℃	10	10.		6J ·:	.05	04	† 0.	02	11	05	.00	90.	- 18
Perceiv Rectal	N 1 2 2 1 1	16	.21	***	÷,23	PJ. 1	:	17 d	,,,	. 15	.11	.21	ď	G 3)	10	.02	.02	03	9.	12	10	11
Scale Direction			ı		nign = ead				And the Control of th	log = yes	high - often	,	Line of the state of		117.66			x	Ľ	E	f	Tow m adequate	low madequate
Description	Tr.		Unequal friend (near; 11 6 4 to 12 12 12 12 12 12 12 12 12 12 12 12 12	Unequal aftendance by B & W parents	Unequal black 6 white parent visite	Inequal bleet & willy parents sent ros		Att flude		Filmcipal can have important effect	men etten up you worry about work	F-14 Evaluation of Race Relations Programs	Minajity curtate courses	Affacial ofolerry complete	P-15 Evaluation of Instructional process		Teacher workshops Remedial roads	Vocational training	Classrooms for undersell evers	Classrooms for maladinara	Achievement grouping	Tutoring program	
D. Louding	ania) frv	11 - 10		92. 9	7 .85	B -, 74	tred	abullita de little that I it	7	5 5		Hation of Ra	ći. •	11	lustion of In	0	ş. 59	* * .		. 26	.33	. 35	s
* I.D.	1 1 Inequality	FF 1.04	134	P1256	257	258	12 Umitted	1 15 ()	71.610	235		F-14 EVA	6 (0):1	52	P-15 Eval	01000	133	91	ii	25	28	07	

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			Fifth Grade					•	
I.D.	I.D. Loading	Description	Scale Direction	Rectal	Perceived School Racial Attitude	Personal Racial Atti	Personal Racial Attitude	Achlevement	ebent
-				Black	White	Black	White	Black	White
P-16 Evaluat	ton of	P-16 Evaluation of Human-Relations Programs		.02	00.	.04	09	.02	37
PQ043	. 82	Parent-teacher contact program	low = adequate	05	8.	το.	14	10.	70'-
46	. 86	Intergroup student relations program	low = adequate	05	.0.	€0	10	91	13
64	::	Intergroup teacher relations program	low = adequate	17	16	16	21	-10	25
P-17 Evaluation of Services	1on of	Services		60°	.02	.15	.02	07	- 30
10004	.74	Guidance counselors adequate	low = adequate	03	90	60.	02	14	27*
7 0 (97.	Home visitor adequate	low - adequate	60.	90	70.	÷.02	07	05
	.41	Teacher aides adequate	low - adequate	.15	91.	.22 *	.18	61.	.26*
		•			,				•

B-15

Table B-2 Tenth Grade

Partial Correlations between School Process Variables and Student Race Relations and Achlevement Outcomes

			,	rest estad	Black	Black Student Dutcomes	utcomes	-
	Loading	Description	Scale Direction	School Racial Attitude	Student Racial Attitude	Racial	School Patrness	Achievement
I-I Teacher	Teachers' Racial Attitudes	Attitudes		.02	01	01	- 19	11.
70025	.53	Black atudents better off in mixed schools Wilte students better off in mixed schools	high = yes	.03	05	16	.07	.03
62	.72	The amount of prejudice is exapperated	nigh = year	.16	.00		08	01
63	85	Like to live in integrated neighborhood		90	11	.03	21	02
799	47	Civil Rights: More good than harm		05	02	8.	.08	.15
S 0.0		Blacks and whites should not intermarry	· •.	ું. જે.	.15	.25	.03	60.
99	.73	Black failure due to white restriction	high - agreement	10:	.13	. 15 . 40	19	- 10
T-2 Support for Integration	for Inte	gration			5	00.		oJ -
T0187	. ************************************	1 111	,	т.=-	07	70-	02	gg*
188	. 64 78	Students like desegregation		16	22	13	26*	÷.02
189	8.	Superintendent 14km desertention		.02	04	11	80.	.02 .02
061	. 89	White teachers like deserments		.07	.07	.04	.03	14
161	.87	Black teachers like desegreeseton	nigh a no	08	.03	70 °	14	.03
T-3 Absence of Tenston	of Tensio			04	.07	.03	80	00.
20166	à			.29	.00	01	.15	11
166	40.1	Evaluate desegregation	low - no problems	28	.05	.02	.03	30.
172	£ 18	Terespose hereografic	•	.30*	.11	.12	٠. <u>.</u>	01
1.7	.75	The school atmosphere is reas		.35	02	01	.07	16
176	. 59	White discipline problems	11.gn = no	.23	-,08	.12	.16	11
771	.74	Black discipline problems	100	. 13	.18	20.	.28*	70.
٠				7	٠ <u>٠</u> ٠	12	02	15

ERIC Full Text Provided by ERIC

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				Wilce	White Student Outcomes	comes	
			Perceived				
			School	Student			r
-			Racial	Racial	Racial	School	S****
Tropo rosa	Uescription	Scale Direction	Attitude	Attitude	Contact	Patrness	Achlevement
T-1 Teachers'Racial Attitudes	al Attitudes		.23	47 47	.55	.01	02
TQ025 .53	Black students better off in mixed schools	hígh " yes	20	25.	* 7.6	ac	70
26 .84	White students better off in mixed schools	high = yes	* 25	*67	***	3 2	90.
62 .72		low = agreement	02	77.	<u> </u>	5 8	
63 85	Like to live in integrated neighborhood	low = agreement '	19	. 42	50	70	. 10
64 47	Civil Rights: More good than harm	low meagraement	17	27	26	80	20.
65		high = agreement	17.	, .27*	38#	60	01
66 . 73	Black failure due to white restriction	high " agreement.	70.	18	*15.	80.	8
T-2 Support for Integration	ntegration		- 36 ##	****	1,7##	.5	
TQ187 .84	Students like desegreeation	, 4 c 4 d c	## O	# #	**	0:1	
188 87	District Control of the Control of t	•	38	53	95	17	.05
		high = no	.113	-,28	36	60.	.26
		high = co	03	-:19	21	.12	.10
		high = no	23	- 38	36	07	.05
181	Black teachers like desegregation	high = no	30**	49	, -, 33	11	. 63
T-3 Absence of Tension	noton		.43	.39**	.36 **	.16	90.
TQ16584	Evaluate desegregation	low = no problems	** 9½-	- 28	- 21	2	90
166	More fighting since desegregation	high = no	33**	*5	* 4 *	3 2	6.
172 .81	Tenbeness between black and white atudents	high = no	100	** 7£	*77	3	10.
4775	The school atmosphere is tense	h1gh = 110	28*	****	2041) 1 .	ς; ;
176 .59	White discipline problems	high = low X	717	70	97.	23	.13 *26
177 .74	Black discipline problems	high = 10% X	*72.	.01		. 21	67.

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How do principal 6 black students get along high = warm, open

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How do principal 6 white students get along

high - warm, open

				Tanth Grade		Black S	Mack Student Duteomes	: Dada	
g.	1. D.	Loading	Description	Scale Direction	Parnstond Hebond Bactal Attitude	Stillent Besini	Racial	Schoul Patrneus	Achievement
•	Teachers Joo Attitudes	re Job A	ititudes		09	2)	. 24	3.06	90
	TQ041	.66		high = no	60	22	797	UN	-,06
	77	.35	No one to share responsibility	1 1	\$0.	16,	25*	14	10.
	97	.60	Don't have the training needed	high = no	.13	£0.	. 14	7.	.05
_	1-5 Interpe	rsonal Re	T-5 Interpersonal Relations with Students	ļ	70:-	3.		90'	-,02
9	40253	60			-114	98		41	
Q.	254	82		lifgli - warm, open	. st.	.03	, 01	.31*	01
	255	.82	How do you and black and all	6 ·	05	12	00.	.27*	.12
	256	. 83			, 03	.02	10	37**	.07
٠	261	.38	How do black and white etucate of	- Varm,	-,07	- 18	15	33**	07
(. E-	-6 Interne	0 10000	Suore alegents Set along	high - warm, open	.28*	03	.16	.17	05
· .	2012	T PONIA I	THE THE TOTAL OF THE TOTAL OF THE THE THE THE THE THE THE THE THE THE		-, 09	26	06	114	8
	TQ251 252	.60 .85		high - warm, open	10	18	-, 19.	03	06
	760	.87	How do block and think to the teachers		70.	23	04	. 12	.02
1 6	-7 Internet	- Cacon	nor to track and white teachers get along	high = warm, open	-,12	-,20	.03	. 10	.05
4	24 134117	T SOLIGE THE	The type to old the tations of Film cipal	-	90.	22	24	14	- 07
	TQ250	.78	•	high = warm, open	90.	11	15	.05	-17
	258	5 6	NOW do the principal and teachers get along	high = warm, open	. 10	17	15	.20	->13

Table B-2 (Continued)

(Continued)
B-2
Table

White Student Outcomes

hers Job Att hers Job Att 1 .66 3 .62 4 .35 5 .60 5 .82 4 .82 6 .83 6 .83 7 .82 7 .83 7 .8	Just too much work to do Range of ability makes teaching hard No one to share responsibility Don't have the training needed ations with Students How do you and white parents get along How do you and white students get along ations among Teachers How do you and white teachers get along ations among teachers How do you and white teachers get along tions of principal How do black and white teachers get along tions of Principal How do black and white teachers get along tions of Principal	high = no high = no high = no high = no high = no high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open	Perceived School Racial Atritude .05 .01 .11 .11 .14 .15 .22 .20 .20 .20 .15 .17 .11 .11 .12 .12 .11 .11 .04	Student Racial Attitude18,24 .02 .1916 .10 .23 .18 .33** .06 .12 .03	Racial Contact0717 .03 .1917 .24 .11 .29 .11 .29 .10 .10 .10	0001 0001 0001 0001 0001 0001	Achievement 37** 33* 09 09 23 10 12 12 12 12 12 12 12 12 12
259 .88 How do principa	How do principal & black students ger slong How do principal & white students get along	high = warm, open	.00	14	26 24	.19 10.	01 19 11

(Continued)
Table B-2

			1			•	e ·		. /		B-	1.9													•
· • · · · · · · · · · · · · · · · · · ·		Achievement	06	60	00	80	61.7	. 60	07	.12	05	07	71	15	70.	16	.01	13	.01	.12	00.	03	91.	02	09
comes		School Pairness	.07	- 05	6 - 1	-	.07	. 14	n-	π.	13	61.	.15	90.	.19	.14	.21	.12	35 **	02	19	14	21	02	**°05
Black Student Outcomes		Racial	30*		19	19	20	20	28	23	22	05	90.	17	.09	.02	- 00	15	n	.01	80.	18	11	.03	08
Black	Student	Racial	13	.25*	į 6	01	* 02	.03	18	-:07	31	10	.18	14	.07	16	12	03	- 04	.,13	.08	17	04	.08	12
	Perceived. School	Racial	02	.13	01	9.	.05	07	14	05	21	.16	01	. 04	п.	.16	16	60*	14	20	.02	00.	34	.13	22
							•			-						•									
٠.		•			•	۲.						[]				ė.									
		e1	1 1				•					1 1			•		•	- 1	- 1						•
Tenth Grade		Scale Direction	t.	high - much			high = much	high = much	high = much	high - much	high = much		high = a lot	high = a lot	high - a lot	©5 [*]	high = a lot	high = a lot		high = bad	high = bad	high = bad	s high = bad	high = bed	high = bad
Tenth Grade		Description Scale Direction							e high =	black parents high =			8	high = a	high = a	high = a	eaching style high = a	a = high = a	ick and White Students		W	1			gr.
Tenth Grade			Αυτοποωγ	+ high -	h1gh =	high -	Influence of white teachers high =	black students high =	Influence of white students high =	Influence of black parents , high =	Influence of white parents high =	T-9 Teacher Autonomy	high = a	Ochoice of kinds of students high = a	Choice of textbooks high = a	high = a	Uncice of own treaching atyle high = a	a = high = a	I-10 Inequality of Black and White Students	B & W teachers high =	B & W teachers high =	B & W students high =	Prnts. B & W students high =	B & W teachers high =	B & W students high =

Table B-2 (Continued)

Tenth Grade

		1 634	:						B-:	20							,	í	•		•	1.	•	
Achievement	.13	18	- 05	90.	.18	80.	. 14	90.	01	01	11	- 11 -	00.	01.	-,10	,10	.08	80.	.12	60.	07	13	77:	•
School Fairness	70.	14	04	80. ⁄	.13	.01	05	04	12	. 80	.03	16	01	. 80	60.	,11	.02	.07	.04	00.	02	. 21	05	
Racial	07	.18	01	06	90	15	05	07	05	.24	01	.07	11.	.13	,27*	.10	21	13	15	25*	28	06	-, 28	
Student Racial Attitude	,14	.02	70	.22	17	01	8	.01	.02	.33**	02	.19	.10	.28	.25*	.31	18	08	20	12	34	.00	- 19	
Perceived School Racial Attitude	.02	05	07	.17	. 10	18	21	01	13	80.	.05	70.	01	70.	. 603	.13	11	11	08	.13	27	.07	21	
•									•	t.											,			
Scale Direction		high = much	high = much	high = much	high = much		high = much	high = much	high = much	. 0	high = a lot	high ≈ a lot	high = a lot	high = a lot	83	nigh = a lot		high = bad	high = bad	high = bad			н	مب
Description		Influence of school board	Influence of superintendent	Influence of black teachers	Influence of white teachers	Influence of black students	Influence of white students	Influence of black parents	Influence of white parents		Choice of jobs in this echool	Choice of kinds of students	Choice of textbooks	Choice of own routine	Choice of own teaching style	T-10 Inequality of Black and Units Conducts	מונח שוודרב סרחספוורפ	Unequal support for deseg: B & W teachers	Unequal friendliness: B & W teachers		Unequal friendliness: Prnts. B & W students	Unequal influence: B & W teachers	Unequal influence: B & W students	
Loading	T-8 School Autonomy	51	- 38	.73		.84	97.	.70	.54	T-9 Teacher Autonomy	67.	99.	69.	. 68	.57 .56	litry of B		02	65	. 25	. 70	9/.	62.	·
I.D.					. 292																			

			Tenth Grade	•		Black Student Outcomes	88	
	4.1			Perceived School	Student		:.	•
I.D. Loading	ading	Description	Scale Direction	Attitude	Racial Attitude	Racial Contact	School Fairness	Ach
-10 Continued				. 1				
TQ280	.75	Unequal influence: B & W parents	high = bad	05	16	90	32 *	i
187	<u>ج</u> ج	Unequal school mix for B & W students	high = bad	11	09	-,35**	.02	•
	.I2	Unequal black and white discipline problems	high = bad	.02	.18	.04	. 19	-•
	3 1	Unequal B & W grade level performance	high - bad	60	03	02	. 14	•
587	12.	Unequal teacher fairness	high = bad	23	60.	-, 10	06	-
-11 Perceived Racial Differences	Racta	1 Differences		.03	02	04	00.	;

Table B-2

٠		A Park			School	Student		:.	
I.D.	I.D. Loading	Description	ton	Scale Direction	<pre>Artitude</pre>	Racial Attitude	Racial Contact	School Pairness	Achtevene
T-10 Continued	Inued								
T0280	.75	Unequal influence: B	5 W parents	high - had	6	17	; . 70		
281	• 30	Unequal school mix for B & W	B & W students			2	**************************************	. 76.	80°-
282	.12	Unequal black and white disci	e discipline problems	high a bad	65	S 1	3 2	4 0	9 8
283	90.	Unequal B & W grade level performance	vel performance		÷ 60°-	03	02	41.	8 5
284	.51	Unequal teacher fairness	9.8	high = bad	23	60.	-, 10	90	50.
T-11 Perce	eived Racia	T-11 Perceived Racial Differences			.03	02	04	00.	02
т0218	94.	Black and white boys: Activity level	Activity level	low = no difference	03	, 11	1	90	8-
219	.61		Read better	low = no difference	05	.15	80*	. 20	.02
220	.23		Musical	low = no difference	05	.20	.11	.07	 St.
221	.21		Athletic	low m no difference	.03	.28	50.	.01	01
222	94.		Adjusted to school	low m no difference	21	•00	.13	.04	.16
223	7.87		Quicker to catch on	low = no difference	04	60.	.05	.12	.17
224	64.		More attentive	low = no difference	14	60.	60.	.02	.13
225	79.	٠.	Like to learn better	low = no difference	11	-,17	. 60	10	05
226	.68		Get along better	low - no difference	90.	12	11	01	.02
227	09.		Achievement oriented	low - no difference	21		.07	.10	. 00
228	74.		Cause more trouble	low = no difference	19		÷.04	15	. 20
229	.63		Need more help		16	•	, 0.0°	05	.16
			` ` .		E.				

(Continued)	
B-2	
Table	-

				<pre>lable b=2 (Continued) Tenth Grade</pre>		White	White Student Outcomes	80 E	•.	
									-	
·					Perceived		•			
1.D.	Loading	Description	ton	Scale Direction	Racial Atritude	Student Racial	Racial	School		
T-10 Coatinued	nued		3 .				CONFOR	000	Achievement	
TOSEG	7.5			<i>f</i> }						
200	•	oneduat tuttuence: B	b a w parents .	high - bad		02	03	.1 2	05	
187	9	Unequal school mix for B & W students	B & W students	high - bad	05	20	15	03	06	
282	.12	Unequal black and white discipline	e discipline problems	high - bad	22	10.	13	.14	.19	
283	8.	Unequal B & W grade level performance	vel performance		35	25	14	.11	.33 **	
284	.51	Unequal teacher fairness	98	high = bad	.02	.02		. 19	.24	
T-11 Perce	Ived Racia	T-11 Perceived Racial Differ aces			-,14	24	29*	05	وع	
TQ218	97.	Black and white boys:	Activity level	low a no difference	15	- 26 #	- 12	80 -	96	
219	.61		Read better		70'-	8 6		3 :		-22
220	.23	:	Musical	low = no difference	- 19	90	2 6	71.	*. · 8	
221	.21		Athletic		8	12	40	6.6	3 9	
222	95.		Adjusted to school		20	90	.03	.12	. <u>16</u>	
223	. 75		Quicker to catch on		15	22	24	.10	.25*	
224	65.		More attentive	low = no difference	21	18	80	.10	.25*	
225	. 49.		Like to learn better	low - no difference	. = 33##	- 30	15	.	.10	
226	89.		Get along better	low = no difference	15	24	16	70. -	.08	
227	09.		Achievement oriented	low = no difference	21	- 14	20	.08	.07	
. 228	77.		Cause more trouble	low = no difference	36	41	27	16	13	
229	.63	. /	Need more help	low - no difference	17	20	22	.03	. 16	
				•						

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	ul.	÷	• .	<u> </u>	1.	
	Achievement	.09		07	.12	05
Omes	School	25* 08	09 .06 12	13 01 13	09	04 10 29
White Student Outcomes	Racial	36 ** 18	18 09 26*	14 22 19 19	23	04 21 44***
White S	Student Racial Attitude	27 * .03 04	.13	.00 16 24 07	14	.06 28 43
	Perceived School Racial Attitude	.10	.13	.08 .06 111 06	.00	.31* 27* 41**
			*	-		
Tenth Grade	Scale Direction	low = no difference low = no difference low = no difference	low = no difference low = no difference low = no difference	low = no difference low = no difference low = no difference low = no difference	low = no difference	low = yes low = yes low = yes
	ption	s: Activity level Read better Musical	Athletic Adjusted to school Quicker to catch on	earn better better at oriented	elp	
	Description	Black and white girls: Activity Read bett Musical		./	ССВВ	All students learning more White students becoming less prejudiced New educational programs fearnands of the
	Loading	.30	.70	.67 .79 .58	egation Pro	
	I.D. Lo	TQ230 231 232 232	234	237 238 239 240	T-12 Desegregation Process	168 170 171

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B-2
Table

Tenth Grade

Black Student Outcomes

	Achtevement		7	5		2					 			ξ.	. ~	, , 15.			~	10			77		_	
			13	15	21	-, 12	10	01.	.00	70	10	119	. S	-, 24	- 07	254	8		.02	05	.24	.03	.20	13	.19	.04
j	School	*		.21-	.13	08	.17	31	37**	18	16	; ;	10	30*	0	.00	***	*	29	.00	18	21	90.	33	21	
	Racial Contact	1		20	17	.24	35",	02	.01	· .05	-, 16	10	91.	70	60	29	03		÷0	10	.02	01	.05	. 10	- 00	12
	Student Racial	0.	07	90	12	.24	#28°	.02	. 69.	00.	14	00.	.08	13	12	60	01		TO:-		.14	01	90	.12`	.04	91.
	Perceived Schoci Racial Attitude	1		رn .	.02	.25	.04	٠.07	13	07	02	.16	.22	.08	03	.03	- 18	:	3 .	:.T:	91.	12	02	60.	18	.15
		,	-	•					•									,	z			ce relations	to race relations			r
	Scale Direction		high m much		1s yea		nign = yes		low = best	low = yea	low " yea	low = yes	low = yes	high = most	high = most	low = yea		00 m 00		1 1		low - helpful to race relations	low = helpful to ra	low = yes	low = yes	low = yes
•	Description	ng.	Amount of in-service training				O	Principal	Rate principal		Supportive of white teachera	Spoken of unfeirness to black students	Spoken of unfairness to white atudents	Influence of the principal	Influence of the assistant principal	Values college prep. over vocational ed.	eaching	Mult1-ethnic texts	Com problems			. A	.**	this year	A.	Official atepa taken to integrate clubs
	Loading	r Traini	.91	. 84	- 46	.57		tion of	.84	.75	.75	07	16	72	40	. 02	racial To	99.	78	89.	.50		6	¥0.	22	17
	I.D.	T-14 Teacher Training	TQ028	173	174	175		I-15 Evaluation of Principal	TQ051	163	164	185	186	797	265	HT039	T-16 Multi-racial Teaching	TQ037	. 38	39	201	513	513	CZ01H	5	27

		ŧ.		Tenth Grade		White S	White Student Outcomes	cones	٠
	ب				Perceived School	3		,	
·	1.b.	Loading	Description	Scale Direction	Racial	Racial	Racial	School Fairness	Achievement
1	T-14 Teacher Training	er Trainin	29		.11	.19	07	.05	.03
	TQ028	.91	Amount of in-service training	high - much	.00	. 10	02	.12	90.
	173	· 84	Had training this year	high = yes	.14	60	70.	.07	60.
	174	- 746	Evaluation of training	low = valuable	.16	.05	or.	.03	.18
	175	.57	Training changed thinking	high = yes	.03	.11	10	.10	05
•	T-15 Evaluation of Principal	ation of P	rincipal		27	36**	29	29*	06
	т0051	.84	Rate principal	low = best	2'n	26*	24	21	01
;	163	.75	Supportive of black teachers	low = yes	17	21	14	06	.17
	164	.75	Supportive of white teachers	low = yes	60*-	08	27	16	02
3	185	07	Spoken of unfairness to black students	low = yes	.15	.05	70°	07	.16
3	186	16	Spoken of unfairness to white students	low = yes	.19	.21	.07	.02	.14
7.	797	72	Influence of the principal	high = most	. 22	.22	.01	.25 *	.19
÷	592	40	Liftuence of the assistant principal	high = most	50.	.27*	.01	.23	î.26 ⁴
	HT039	.02	Values college prep. over vocational ed.	low = yes	. 03	11	24	13	16
 د	T-16 Multi-racial Teaching	racial Te	aching		23	43**	22	18	12
	TQ037	99.	Multi-ethnic texts	low = yes	23	23	10	10	11
	38	78	Projects on intergroup problems	Iow = no	04	.19	.03	.16	.24
	33	89`	Class discussion on race	low = often	90.	26	90	08	.14
. '	201	. 50	Minority group history	low = helpful to race relations	.35	23	- 18	٠0,	.13
・. シ	. 213	05	Biracial advisory committee	low = helpful to race relations	25*	19	20	03	.08
	HT025	.59	New biracial activities this year	low = yes	03	. 90°-	04	15	05
	56	22	Clubs, têsms integrated	low = yes	22	26	÷.19	.03	.00
	27	17	Official steps taken to integrare clubs	low = yes	.13	.12	.03	90.	.08
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·			Tenth Grade		Black	Black Student Ourcomes	urcomes	
I.b.	Losding	Description	Scale Direction	Perceived School Racial	Student Racial Attitude	Racial	Schooi	A A
T-17 Evalu	acton of	T-17 Evaluation of School Services		30			;	W. III CARRELL
19195 196 197	91. 11.	Guldance Counselors Social workers Teacher sides	low " helpful to race relations low " helpful to race relations low " helpful to race relations	60		20	32*	08 11
T-18 Evalu	ation of h	T-18 Evaluation of Human Relations Programs		00.	.14	.10	-,25*	20.
TQ210	. 92.	Parent-teacher contact		90:	01	50.	06	70.
211	.82	Intergroup relations: students Intergroup relations: teachers	to race	.05	09	.16	12	. 12
T-19 Evalue	stion of I			05	18	04	02	.00.
T0198	7%		-	.08	*62.	23	18	.0
199	. 36.	Remedial reading	low = helpful to race relations 'low = helpful to race relations	04	80.	. .	22	02
200	.62	Vocational training Classes for underachievers	low = helpful to race relations	90.	.es .co	.16	26° 31*	.19
203	.62	70	ı î	06	. 16	.16	21 .10	14
205	.58	Achievement grouping within classes Tutoring programs	low melpful to tace relations low melpful to race relations	.02	2 7	, 14	11.	.19
			10W - helpful to race relations	60.	, 01	.20	. 80	.36**

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B-2	
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Tenth Grade

I.D. Loading	Dogweit		Perceived School Recial	School Racial	Racial	School	
	- 1	Scale Direction	Att 1 tude	Attitude	Contact	Fatrness	Achievement
1-1/ Evaluation of School Services	School Services	•	31	48	29	31	16
97. 291µT	Guldance Counselors	low - helpful to race relations	28*		41	19	27*
197	Social Workers Teacher aides	• helpful	14	28	90	21	19
1 0 E	or.	iow - neipiul to race relations	21	19	19	21	.07
1-10 EVBIUNCION OF	1-10 Evaluation of Human Relations Programs		22	34*	27	12	.05
10210 ,76	Parent-teacher contact	low = helpful to race relations	11	21	20	01	.22
		low = helpful to race relations	35	36**	23	12	05
40° 717	intergroup relations: teachers .	low = helpful to race relations	06	29*	27	01	.03
T-19 Evaluation of	T-19 Evaluation of Instructional Programs		18	11	50	70	8
TQ198 .24	Teacher training	low = helpful to race relations			;	5	3
95. 661	Remedial reading .	low - helpful to race relations	18	. 13	01.1	50°-	
	Vocational training	low - helpful to race relations	22	29	-,22	. 18 1	10
202	Classes for underschievers	low - helpful to race relations	10	02	.03	80.	90.
79. 607	Classes for the maladjusted	low = helpful to race relations	.15	.02	07	.16	. 00
,	Achterement grouping of classrooms	low - helpful to race relations	17	- 110	03	02	.00
209	Achievement grouping within classes	low - helpful to race relations	13	• 04	07	.03	.05
	Stand Structure	low = helpful to race relations 3 02	02	-:19	17	11	18

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h1gh = no

Superintendent likes desegregation

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Black Student Outcomes

	•	•	•	•		•				
		•				Perceived School	Student	•	1	
•	1.D.	Losding	Description	Scale Direction		Attitude	Racial Attitude	Racial Contact	School Fairness	Achlevement
	T-20 Teaching Style	ing Style				1,16	3		:	
	10130	.87	Time enent members at about				70.	47	77	111
	131		יייר סוליין אפן וויון פורתפווופ	nigh = often	•	19	04	12	25	90.
ċ	161	ה	lime spent giving directions	high - eften		08	.02	03	. 22	71.
٠	132	ET :	Time spent praining	high - often		.07	.18	8	. Y	1 03
	133	.86	Time spent scolding	high - often		.02		9 9		
	134	08	Time spent in class discussion	high - often		18	.24	15	.20	91
	P-1 Princis	sal's Raci	P-1 Principal's Racial Attitude							
3	10010					.18	11	.03	04	33**
4	17714	. J4	Black students better off in mixed schools	high = yes		. 13	- 258	5	-	***
0	222	.64	White students better off in mixed schools	hich " ves			1	.	ćo -	38
)	. 223	.76	Black failure due to chitte restrictions	1.4.5t = 1.15		05	43**	20	17	18
•	224	. 58				02	10	, 0¢	02	04
	225	- 65	Table to later de controller de cassiste		د. ت	. 28*	.03	00	60.	02
	306		cire to tive in an integrated neighborhood	low = agreement		01	.24	.01	. 12	.34"*
	, , , , , , , , , , , , , , , , , , ,	5 ;	CIVIL KIGHES: more good than harm	low - agreement		.13	.18	.21	90.	-,15
•	177	d.	Blacks and whites should not intermerry	low = agreement		.19.	90.	90.	70	- 32*
٠.	P-2 Support for Integration	for Inte	gration			71 -	-	1		
	P1243	.57	Principal liking for desecrecation	h40h = +-		24	70	-:17	-12	70 -
,.	267	.78	White reachers like decomposition	1	•	07	14	80	90.	09
	268	£	Block touchout 14th design experience	nigh = no		20	. 15	18	.16	.12
	25.0	} ;	rack reacties tike desegregation	high = no		09	·.	23	01	-,16
	. 407	7.	Your superior likes desegregation	high = no	,	-:07	07	.21	80	; 5
٠.	270	.87	Superintendent likes desegregation	high = no				:	90.	

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Table

6		Tenth Grade		Perceived School Rectal	Whi Student Racial	White Student Outcomes t %	Out comes	•
Autosou . d. Losdaing	nng Description	Scale Direction		Attitude	Attitude	Contact	Patrness	Achievement
T-20 Teaching Style	v1e			35**	-,32	36	-,25*	. 60
10130	Time spent warning students	high = often	,	33**	24	23	25*	14
132	lime spent giving directions Time spent praising	'high = often '	· •	07	01	14	.03	.10
133	Time apent scolding	high = often		. 02 - 26	90:	04	:13 %	8.
134	Time spent in class discussion	high = often		96.	60.	61.	70	.00
P-1 Principal's Racial Attitude	Gacial Attitude			.33**	38	2.4	- 03	. 03
PI221 , .54	Black students better off in mixed schools	high = yes		01	.02	.0.	- 16	80
222 .64	. :	high = yes		.13	.16	. 19	13	17
223 . 76		high - agreement	٠	. 22	.17	. 23	.12	: . :
. 13	Like to live an integrated netaborhood	low magreement		.24	.37**	.00	89.	. 22
22608	Civil Rights: more good than har	agreement	į.	05 	- 03	.00	.11	.15
227	.75 Blacks and whites should not intermerry	low - agreement		.20	:::	.0.	26*	
P-2 Support for Integration	ntegration			11	20	£,27	.20	16
P1243 .57	Principal liking for desegregation	high = no		.12	18	- 12	=	2 0
267 .78		high = no		31	- 56 R#	** 87 -	!	11. 70
۵		high = no	ų,	20	-,33**	20	. 70	00.
	Your superior likes desegregation	high = no		.18	.19	.07	**77	
270 .87	Superintendent/likes desegregation	high = no		. 20	. 23	ز ا د.	. 26	. i.
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	nes		<i>-</i>		07		•	.29*	*	'		,	.19			.23		.23		.36 **		
	rugent ourco				, ,	<i>:</i> ·			.05	60.			041	.03			. 1.	.22		·		
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1.D. Loading lieacription Absence of Conflict Regarding Discipline P1492 .68 Conflict between teachers and parents 196 .85 Conflict between teachers and administrat 200 .87 Conflict between teachers and students 205 .76 Conflict between teachers and students P1194 .77 Conflict between teachers and parents 198 .81 Conflict between teachers and students 202 .74 Conflict between teachers and students 203 .41 Conflict between teachers and students 187 .44 Is there a contingency plan 190 .61 Had faculty meetings on racial issues Absence of Conflict between teachers and administrat 201 .81 Conflict between teachers and administrat 201 .81 Conflict between teachers and administrat 201 .81 Conflict between teachers and administrat 203 .92 Conflict between teachers and administrat 203 .92 Conflict among teachers			Scale Di			Ú				low =	lov .	low = se	10V = 8e	nign = n hich = n	- 1		for lough pay	ובת יים שפון				
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		•	-	Absence of				Absence of	10	•					Absence of				Absence of (

	Achievenent	2,8 %	. 20	.30	91.	: :	970		.18	90	90.	01	# 00	44 L7	.32	***	.30	* 00
Atcomes	School Patrness	.50	.22	48 ## .48	** 95.	20 44	23	41,44	.42 **	70.	.18	90.	** **	** 09.	.41	***	.37 **	∵#a
White Student Outcomes	Racial	.25*	.18	.35	.14	*00	32	43 44	.17	.07	.17	80	2	80.	.21	*0°	.36 ##	+1
Phic	Student Racial	.34	. 24	.41 ##	.25*	30##	.41 **	*# 87°	.28*	. 60	.12	*3c	23	12.	.27	"	.29	
٠	Perceived School Racial Attitude	.23	60.	.22	.18	36 ##	.41 **	.28	.24	00	.29	60	.03	.12	.10	. 00	.01	ì
ide	100 100 100 100 100 100 100 100 100 100		oblem	oblem	problem problem		serious problem	Serious problem	serious problem	serious problem			problem	problem	problem		serious problem	
Tenth Grade	Scale Direction		high . no problem	tion high = no problem	high = no problem	-		ion low = Seriou	tow = seriou	low - seriou	high " no	-	low = serious problem	ion low - serious	low - serious			
	Description	ing Discipline	Conflict between teachers and parents	Conflict between teachers and administration high	Conflict between teachers and students	al Issues	Conflict between teachers and parents	Conflict between teachers and administration low =	Conflict among teachers	Conflict between teachers and students	rs Luete a contingency, plan Had faculty meetings on racial issues	ty Grouping	Confilt between teachers and parents	Conflict between teachers and administration low - serious problem	Conflict among teachers	Instructional Change	Confilct between teachers and administration low =	Confiler among to the
	Loading	P-3 Absence of Conflict Regarding Discipline		.85 Conflict		P-4 Absence of Conflict: Racial Issues	0	.81 Conflict	:		.61 Had facul	P-5 Absence of Conflict: Ability Grouping	.79 Confilct		.81 Conflict	- 1	.92 Conflict	.92 Confiler
	1.0. Lo	P-3 Absence of	١,	196	205	P-4 Absence of		/: 86I	202			P-5 Absence of			201	P-6 Absence of Conflict:	PI 199	203

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		Achievement		.27	.00	05	08	10	60	.16	. 80.	.02	.12	04	01	10.	60.	, 91.	-,10	- 04
Jutcomes	School	## **	39**	.42**	.25	.04	22	.02	26*	.24	-,14	.03	.07	.03	13	21	00.	01	17	07
Black Student Outcomes	Recial		.10	.26*	.31″	.21	.15	.32	. 19	.17	60.	п,	.02	.31	-,13	.02	18	08	01	24
Blac	Student Racial	* 5	202.	.25*	02	.21	.02	.17	90.	.16	÷0	7	*.07	.32	. 04	13	02	04	.05	09
	Perceived School Racial Attitude	90	cı.	.07	.08	.14	.11.	.29	.02	60	.0. *:-	.27	12	11.	06	14	.04	22	01	13
Tenth Grade	Scale Direction		low - serious problem	low = serious problem			low	low Tow percentage	* of c	low make percentage	Jon - tow Percentage		low mercentage	-			g .		Men Head	No
	1 Description	P-7 Absence of Principal's Personal Confilet	Working after school hours	Receiving phone calls at home	Evening functions at school		Percent disadvantaged Percent of free school lunches	Percent parents college graduates	Percent parents not beyond high school	1	Percent parents unskilled	Percent family 1/100me over \$15,000	Percent family income under \$8,000		Vierbon 62 th	Number ilgnis requiring treatment Number of times lockers broken total	Number of student robberies	Number of attacks on a teacher	Number of robberies of achool property	X - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	1.D. Loading	-7 Absence of Prin	P1209 .91		212 .09 P-8 School SFS	77110	166 .74	16767	168 .50	16955	170 .81	17168	17282	P-9 Violent Behavior	P1229		231 .54	232 . 74	233 78	
		P4 .		•		3 ₄	4				,			<u>-</u>						

				Table B-2 (Continued)					٠, تت
				Tenth Grade		White	White Student On	Оптсошев	
	,				· Perceived School	Student			
1	I. D. Lo	Loading	Description	Scale Direction	Racial Attitude	Racial Attitude	Racial	School Fairness	Achlevement
P-7 Ab	sence of	f Princ	P-7 Absence of Principal's Personal Conflict		.01	.00	.19	38	10.
. PI	P1209	. 16.	Working after school hours	low = serious problem	.02	12	8.	.36**	70
. 4	210	.95	Working weekends	low * serious problem	10.	.05	.26*	34**	50.
.,•	211	88.	Receiving phone calls at home	low = serious problem	04	. 010.	. 25*	, 34**	.12
	212	60	Evening functions at school	low = serious problem	.13	,14	.03	08	90.
P-8 School	tool SES	~			.27*	.03	03	02	- 32
9911d	79	.61	Percent disadvantaged	low " low percentage	70	- 21	2	91	
- .	166	.74	Percent of free school lunches	low a low percentage	.2:	: 8	5 0	61.1	11:-
	i .	67	Percent parents college graduates	low = low percentage	08	10.	.24	19	80
4		ا	Percent parents not beyond high school	low = low percentage	60.	.10	.11	07	-, 22
		55	Percent parents professionals	low - low percentage	05	.14	.23	07	.22
	1/0	13. S	Percent parents unskilled	low - low percentage	.19	00.	06	19	41
		00.1	Fercent family income over \$15,000	low = low percentage	07	02	70.	14	60
T	,,	70.	rercent family income under \$8,000	low = low percentage	. 24	.05	02	07	07
P-9 V10	P-9 Violent Behavior	havior			22	18	17	.07	.03
PI 229		.72	Number fights requiring treatment	low = fev	- 22	10	5		
	230	.42	Number of times lockers broken into	low * few	 	70	5) i	** ,;
2	231	. 54:	Number of student robberies	low = few	* * * * *	5.	· *	77:	es.
2	232	.74	Number of attacks on a teacher		07:-	b7	67	79	.02
8	233	. 78	Number of rother to of selection	l	18	12	15	03	17
		· !	מתחקבי כן יכתיביזבם כן מכווססן לוכתיבוא	low = tev	17	25*	29	60.	80.
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			•	Tenth Grade		Black	Black Student O	Outcomes	
					Perceived School	Student		, , ,,,,,,	
· .	I.D.	Loading	Description	Scale Direction	Racial	Racial	Racial	School	Achievement
	P-10 Princ	tpal's In	P-10 Principal's Interpersonal Relations		.07	60.	90.	08	. 07
•	PQ124	\$5.	You and administration	high = warm, open	14	13	90	- 22	91
	125	.83	You and black teachers	high - warm, open	90.	00.		: =	. 30
	126	. 78	You and white teachers	high " warm, open	, II.	04	02	07	97.
3		. 72 :	You and black parents	high = warm, open	.20	.28	.20	.05	10:
4 (130	. 02	You and white parents	high = warm, open	.16	.13	03	10.	.05
j		6	You and plack students	high - warm, open	.12	42.	.01	.03	11.
	3	3	ion and white Btudents	high " warm, open	60.	.12	00.	.07	11.
	P-11 Inequality	ality	,		.03	07	.15	19	
	PQ133	52.	Unequal friendliness: B & W teachera	high = bad	01	- 05	- 03	70	
	134	.52	Unequal friendliness: B & W parenta	high = bad	90.	. 60	13	95. 1	, (o
	PI256	.72	Unequal attendance by B & W parents	high = bad	03	20	90.	.20	ŏ. 60
	757	78	Unequal black & white parent visits	high = bad	.04	02	.17	.18	: 7
•	807	*/.	Unequal black & white parents sent for	high * bad	10	.05	.29	.02	60.
	P-12 Omitted	p)		,					
	P-13 Principal's Job Attitude	pal's Jol	Attitude		02	21	- 15	- 03	
	P1234		Principal can have important effect	low = yes	10	21	-, 10	£1.	71.
	67	<i>;</i> ;	How often do you warry about work	high - often	.03	11	11	17	.17
	P-14 Evalua	tion of 1	P-14 Evaluation of Race-Relations Programs		.12	.14	. 24	10 -	- 02
	PQ019	.71	Minority culture courses	low = adequate .	0.	71	ď	****	
	. 52	ιτ.	Biracial advisory committee	low = adequate	. 18	90.	.25	77.	2.22
	•					·		}	ž

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Table 1

_	Achtevenent		ŠÕ.	08	-,03	00.	.17	. 20	10.	.01	3-3	ł	02	00.	.04	.07	.18			0:	10	10	-,07	03	10	
COMES	School Patrness Ac			- 10	14	-,10	14	08	08	-,09				.05	.17	.21	.12				# (;	DE , -	10'	- 60	.10	
White Student Outcomes	Racial Contact	30	CO	26	.00	n	. 20	%	.0.	-,03	. 23		 29.	8	.05	. 19	** 64.	•	1 2		77 :	-, 19	09	08	01.	Andrews of the Control of the Contro
White S	Student Racial Attitude	20#		8.	.25	.23	.29	. 28	. 20	.19	.03		cr	14	02	. 10.	.14		12		* 27.	/2:-	-,08	25*	.14	
	Perceived School Racial	.07		14		ð	.	90.	. 16	.11	10		70	01	14	02	06	c _:	01	5	70.		70,	01	. 15	
						-								•	۷											
Tenth Grade	Scale Direction		the second second	1					BIRA .	nigh m.warm, open		high = bad	1		•		DBG # 178711			low - yes	high - often				TOW - AGEQUATE	-
	Description	P-10 Principal's Interpersonal Relations	You and administration	You and black teachers	You and white teachers	You and black parents	You and white parents	You and black students	You and white students			Unequal friendliness; B 6,W teachers	Unequal friendliness: B & W parents	Unequal attendance by B & W parents		Unequal black & white narents cont for			Arritude	Principal can have important effect	How often do you worry about work	P-14 Evaluation of Race-Relations Programs		ninority culture courses Biracis! advisory committee		
	Logating	lpal's Int	•59	. 83	87,.	. 72	.73	67.	.80	2112		. 25	.52	.72	*84	. 74	. •	31	DOC 5 TRA	.77	.77	tion of Ra	5	17.		
	I.D.	P-10 Princ	PQL 24	125	126	127	128	129	130	P-11 Inequality		PQ133	.134	P1256	257	258	P-12 Omirred	0 12 0-4	TO CLINCIPAL S JOB ACCICAGE	P1234	235	P-14 Evalua	0.000	52	,,,,,,	

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Black Student Outcomes	Racial School , Contact Ratinged	400000000000000000000000000000000000000	70'- 50'- 07'	.07 .25* .14	11, 60. 81.	.180225*	.22 ,26*18	05 .0104	.1227	ı	00 - 08		02 .1016	.001425*	180215			.310621	04 .37** - 07	.06			-,15 .05 .10	.2708 .13	0108 .13	90 60.	
Black Stud	Student Racial	1.5	-	.20	.18	.21	.24	06	25*	07	60.		.23	00,	.05	29#		.16	.14	, 27 *	-,06		10.	04	24	60°	
	Percelved School Racial Arritude	60		01	70°	114	.00	- 11	38**	.25#	111.	**	. 33	01.	70'	.37**		.00	. 26	60.	.10	8	00.	70.	28	აი.	
Tenth Grade	Scale Offection		Total medicaning	1		4	4 :	10W = adequate	1	low = adequate '		Low " adequate			TOW = adequate			ı		low = adequate		low = agreement	100 m appropriate	1		10W = agreement	
	I.D. Loading Description	P-15 Evaluation of Instructional Programs	PQ010 .53 Teacher workshops	13 .38 Remedial reading	. 16 .40 Vocational training	22 .73 Classrooms for underschievers	25 .68 Classrooms for maladinared	28 .60 Achievement grounding	٠	P-16 Rvoluceton of 11	Craruation of numan Kelations Programs	P0043 .65 Parent-teacher contact program	46 .90 Intergroup student relations program	49 .90 Intergroup teacher relations program	P-17 Evolution of the Parish	. The tradition of Services	PQ061 .77 Guidance counselors adequate	64 . 78 Home visitor adernara	07 Teacher office of	algohane canto		١	65 .71 Like to live in integrated neighborhood	66 .48 Civil Rights: more good than barm	6777 Blacks and whites should not intermediate	68 75 01-1-6-25	

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		Tenth Grade		White	White Student Oulcomes	ul comes	
Loading	S Description	Scale Direction	Perceived School Racial Attitude	Stu Rac Att1	Racial	Schoól Fatrnese	
ton of	P-15 Evaluation of Instructional Programs		3.0		*		TURBARAGIO
				501	. 29	88	90'
2 0	reaction Morkshops	low = adequate	.03	114	*6Z.	.04	-, 12
8.	Nemedial reading	low = adequate	02	.03	.25	10.	- 03
3	Vocational training	low = adequate		.07	. 22	20.	50:
57.	Classrooms for underachlevers	low = adequate	-, 23	.03	*0€	50.	50:-
80	Ulassrooms for maladjusted	Iow - adequate	-, 16	03	0.7	-	1
9.	Achtevement grouping	Iow = adequate	* 00		5 6	10.	51 .
.61	Tutoring program	low m adequate	97:-)		14	91.
Jo uo	P-16 Evaluation of Human-Relations Programs		2			69:1	90.1
,			7/17	770-	05	30	-16
9	rarent-teacher contact program	low = adequate	91.	60',	60.	.03	01
? 8	intergroup student relations program	low = adequate	05	04	90.	17	20
š.	Intergroup teacher relations program	low = adequate	.03	07	11	11	18
P-17 Evaluation of	Services		28*	37.44	•06	è	
77	The state of the s				יוולי	gn,	80,
9,0	nearth contactors arequare	low madequare	.02	.02	.15	10.	90.
0/•	nome Visitor adequate	Iow = adequate	.36*	.35	.17	70.	90
SO:	Teacher aides adequate	low = adequate	01	.32*	424	. 20	90.
s' Rac.	C-1 Counselors' Racial Attitudes		.18	. 25	10	70	
76	The amount of prejudice to exagonated						- T-
	Table to the state of the state	10W = agreement	50.	111	-, 10	.02	21
2 7	Cital backs in integrated neighborhood	low = agreement	.23	. 19	.19	90.	.15
? ;		low magreement	.01	08	11	01	04
: ;		<pre>0 low = agreement</pre>	02	14	14	.03	00.
?	Black failure due to white restrictions	high m agreement	.18	.07	70.	07	.14
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				Achtevement	ייייייייייייייייייייייייייייייייייייייי	111	. 19	.08	.12	10,	.36	.05	15	.08	.17	. 14	.13	.05	60.	60	.07	.03	.01	-		09	03	.13	05
	иссомен			School . Pairness		.12	90.	.16	07	27	20'	00	.15	.03	.25	.21	-,10	.00	18	.03	10	.20	.03	04		60.	-,05	01	02
•	Black Student Outcomes			Racial		•04	01	.03	60.	14	10	.05	15	07	. 16	80.	00.	09	70 °	.03	.05	.10	.15	-,13		15	01	60.	90.
	Blaci		Student	Racial Attitude		-,01	70.	,11	90.	08	. 05	90.	,05	.08	.16	.01	07	.02	09	14	19	50. °	19	-,02	,	.03	90.	20. 20. /	12
٠			rerceived School	Racial Attitude		00	-,02	7 0.	-,18	.01	13	70 °	.12	03	.07	. 18	7.13	90,	11	.14	90.	,.22	11.	.07		(1)	[]:-	02	05
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Table B-2 (Continued)	Tenth Grade		·	Stale Direction				H	high = often	l. I		1				ш		1		. #			<u>.</u> ا		high - a lot	high = a lot	high = a lot	M či	
			V	Description		student and a		Darent conference	privileges restricted	kept after school		dropped	nothing done	orced: disruptive behavior		dress code violations	cutting classes	smoking clearettes	fighting	drug use	back talk	Weapons			Percent time spent scheduling	Percent time handling discipline	Percent time academic counseling	Percent, time personal counseling	1
				od	[p] ine	Skinging	9 1 1				•			Rules enforced:		. , ,							C-3 Guidance Counselor Duries		Percent tim	Percent tim	Percent tin	Percent tin	
				Loading	nd Disc:	99	87.	.65	.23	.15	04	09	76	.72	. 81	64.	.72	.43	.71	77	.53	.52	Counse	;	lc.	.50	-, 92	.36	
ķ:	•			1.D.	C-2 Rules and Discipline	6C108	109	110	111	112	. 113	115	116	117	118	119	120	121	122	123	124	125	Culdance		GC12/	128	130	131	
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White Student Outcomes

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		-		; 2	Perceived	, ,			
					School	Student			
1.b.	Loading	Description	ption	Scale Direction	Racial	Racial	Racial Contact	School Pairness	Achtevement
C-2 Rules and Discipline	d Discip	line							
	;				*0,-	.23	. 22	,294	-101
80122	90.	Skipping: student spoken to	poken to	high = often	16	01	70.	. 12	;
109	.78	parents informed	nformed	high = often	- 13	, g		; ;	701
110	59.	parent conference	nference	high - often	ac -	? ?	? :	. 13	: 0:
111	.23	privilege	privileges restricted		67.	Ď.	3	£4.	80.
112	.15	kept after school	r school		90°	\$0.	60	6	*0
113	04	Buaranded		; (17	19	-,21	a.	60.
115	60.	Product P			8.	71.	.20	.02	.07
. 911	76	poddo m		high = often	70. –	80	~.13	03	11
11.		nothing dense		high = often	90'-	-,12	19	16	01.
(11	.77.	Rules enforced: disr	disruptive behavior	high = strictly	.13	.25	.27	.32*	70 -
118	81	dest	destroying property	high = strictly	91.	.31*	314	76	70 -
119	67.		dress code violations	high - strictly	. 18	90		- 5	
120	.72	cutt	cutting classes	high = strictly) }	2	9	٠. -	£0.
121	.43	, smok	smoking cigarettes		60: 40 :	.	01.	90.	20
122	и.	flgh	fighting	· 1	90.1	10°-	~~ ?o.	61.	.03
123	.44	drug	drug use		17.	53.	.17	.27	.07
124	.53	hack	back talk		ET:	.02	8.	02	10
125	.52	Weapons	8000	í í	20.	.15	.07	.22	.21
Can But dones	o logario			, {	.22	95.	.33*	.21	. 60
Contraince confiseror puries	Contracto	r Ducies			70	50	~ 17	36	;
00127	. 57	Percent time spent scheduling	sheduling	high = a lot				-:63	-: 10
128	.50	Percent time handling discipline	discipline		5	02	16	Ç.	S
130	-,92.	Percent time academic counseling	: counseling	, a	*! :-)		п	n.33³*	32 *
131	.36	Percent rime nersons to most define	Counselfne	d / (80.	. 40.	.22	.15	90.
· .	<u>.</u>	THINDIAN AMERICAN	Competing	urgu = # Tor	11.	22	10	- 3	400

												.•.		B-	-41				•											
				1	Achtevement	11	-, 30#	50.	=	14	08	13	12	02	.13	.01	.18	.03	-,36**	70.	.08	10	-, 14	-, 10	13	14	02	06	' 0'	00.
		comen		School	Patrness	60.	.05	60.	- ,03	01	.12	-,14	.30	.10	90.	.14	. 19	, 10	00.	. 10	08	-,18	07	, 09	.16	07.	03	.12	.15	8.
		Black Student Outcomes		Rucial	Contact	02	19	.02	70.	90.	.03	.13	-,01	.04	21	04	.24	.05	07	.07	50.	,00	.15	.12	. 05	.02	-,24	.12	.19	02
		Black		Student Racial	Attitude	.09	90.	05	07	.20	.18	07	90.	`.05	.02	.02	,27	91.	05	.04	.02	-,13	*00	02	. 20	.03	10	.26	.34* .	.15
			Perceived	Racial	Attitude	-, 03	.14	10	09	.00	60.	19	.24	07	-,11	8.	.20	. 19	90.	13	00	19	12	14	.20	07	13	03	05	, 135 , 135
			٠																						٠					
lable B-2 (Continued)	Tenth Grade			Scale Direction			low = no difference	low - no difference	en •	2 ■	<u>.</u>	9 9	2	1 1	9 1	٠ ا	0 1	# no	11 00 11	8 0	90	6 •	9	2	0 ■	2	2. •	B	4	low = no difference
				Description		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Successful to and a	Doctor In academics	beiler - Vocational Athletes	Adjusted in echool	Better - business courses	Pay More attention	Like to compal	Get along better contail	More achievement orfented	Cause more fromble	Need more below	Activity lavel	Successful in academics	Better - vicetions	Athletes	Adjusted in achool	Better - business common	Pay more attended confiden	Take to counce)	Got plans better	More arthurster Socially	Cause more cromble	Need more help	חלדם!! שנית חקם!!
Š	•				C-4 Perceived Racial Differences	8 & 17 hours					-							B & W girls:)	æ		٠		٠					•	
	, .		•	Loading	ed Racial	.57	.63	.54	. 36	.67	. 60	.45	.34	. 48	.68	.58	95.	. 54	.62	.61	.42	.63	.53	, 61	. 29	.40	.56	,58	. 52	
	•			1.D.	-4 Perceiv	GC182	183	184	185	186	187	188	189	190	161	192	193	CC194	195	196	197	198	199	200	201	202	203	204	205	
				4	نا							3	5	2																

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Table B-2 (Continued) Tenth Grade

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٠		ACII LEVEGENT	60	*	67.	9.	 	ct.	· • • • • • • • • • • • • • • • • • • •	.02	-,08	.24	-, 14	17	-, 14	17	.17	09	-,17	. 10	03	.07	01	.16	02	. 6	رن د و
· •	School Petrness	00000	8.	9		3 2	17	.01	.01	.21	.10	.21	05	08	02	03	90.	2	19	. 03	.05	.07	.12	90.	01	. 61	. 05
	Racial	1	15		\ -\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. 25	11	08	01	19	10.	13	01	80.	15	- 03	.15	-, 22	15	. 60.	.05	14	.03	11	.14	00	23
	Student Racial		314	-, 16	60	1407-	13	04	25	00.	03	32	05	01	18	02	.12	42 **	26	.16	17	05	.07	-, 13	90.	90.	22
Perceived	School Racial Attitude		17	01	70.	14		02	·31	.04	01	23	10.	04	,01	03	.00	~.30 _*	32	10	22	11	80.	09	00.	10	02
	Scale Ofrection			low = no difference	low = no difference	low = no difference	low h no difference	low = no difference	low = no difference	low = no difference	low - no difference	low = no difference	low - no difference	low = no difference	low = no difference	low = no difference	low - no difference	low = no difference	low = no difference	low = no difference	low - no difference	low - no difference	low " no difference	low = no difference	low = no.difference	low = no difference	low = no difference
	[†] Description			Activity level .	Successful in academics	Better - vocational	Athletes	Adjusted in achool	better - husiness courses	ray more attention	Like to counsel	vet along better socially	More achievement oriented	Cause more trouble	-		Successful in academics	Better - Vocational	Athletes	Adjusted in school	Better - business courses	Pay more attention	Like to counsel	Get along better socially	More achievement oriented	Cause more trouble	Need more help
	۵	Perceived Rucial Offferences		B & W boys:											4	. 81118:		.*	<i>!</i> .								
	Loading	ed Racial		.57	. 63	.54	.36	/9:	72	25	87	? • •		2 4) • '/	: 3	70.	7 0 .	74.		3 3	70.	67.	2	B C:	36.	· .42
	1.0.	C-4 Percelv		66182	CRT .	184	185	190	188	189	190	191	197	163	76130	105	201	791	108	144	000	8 2	7 6	707	707	507	205

Fenth Grade Black Student Outcomes	School Student Scale Direction Attitude Contact	-,03 -,01	50° poo8	•		■ 800d ■ .24 .05	.08			80.00 80.00	70 10. poox			high = often	02	
	1.D. Loading Description C-5 Evaluation of Pacifities	0 ratifities	55 Media Center	. 65 Language Lab	76 Science Lab			.78 J Theatre Arts facilities .58 Home Economics	.68 Typing facilities	.70 Work-study programs	.51 Auto Mechanics facilities	.52 Woodworking facilities	C-6 Counseling Practices	Students helped to plan own programs .82 Discipline problems sent to other sent to oth	61 Students choose own counselor	

Table 5-2 (Continued)

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Table B-2 (Continued)	Tenth Grade
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	Achlevement	.12	8744 61. 72. 72. 73. 74. 70. 71. 71.	03
nes	School Wairness	.22	.20 .12 13 .28* .29* .34* .14 .06	.11.
White Student Outcomes	Racial Contact	.08	05 .08 .08 .05 .16 .01 01 .10	.03
Wite Stu	Student Racial Attitude	.11	12 .04 .09 .15 .22 .03 .03 .24 .13	.17
	Perceived School Racial Attitude	90.	.01 .16 .22 .20 .22 .23 .23 .29	.03
Tenth Grade	Scale Direction	high = good high = good	high = good high = good high = good high = good high = good high = good high = good high = good high = good high = good	high = often high = often high = often
	Description	ter Lab	Science Lab Computer Lab Arts & Crafts facilities Gles club facilitie Theatre Arts facilities Home Economics Typing facilities Work-study programs Auto Mechanics facilities Woodworking facilities	Students helped to plan own programs Discipline problems sent to other schools Students choose own counselor
	ing Facilities	5 Gym Media Center 5 Language Lab	Science Lab, Computer Lab Arts & Crafts facil Gles club facilitie Theatre Arts facili Home Economics Typing facilities Work-study programs Auto Mechanics facil Woodworking faciliti	Students he Discipline Students ch
	1.D. Loading C-5 Evaluation of Facilities	GC207 .65 · 209 .55 · 210 .65	211 .76 S. 213 .27 Cc 214 .80 Ar 215 .76 Gl 217 .78 Th 218 .58 Ho 219 .68 Ty 221 .70 Wo 222 .51 Au C-6 Counseling Practices	273 ,92 27661

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Table

		O2	11.	,04	. 90	90	.02	. 02	60.	07	10.	01	8.	. 10.	.02	02	05	.04	: ·
OMES	School		.07	,04	90.	80	.12	. 10	.17	90.	8	99.	.01	01	90.	.12	25		
Black Student Outcomes	Racial Contact		.12	.05	10	3	. 19	.12	.17	.19	-,01	13	03	.14	. 13	04	-, 07	17	
Black	Student Racial Attitude	,14	=	.08	.15	01.	.20	.11	.18	.16	80	.14	.12	.08	.01	۰.10	27	03	i i
	Perceived School Racial	03	00.	.07	07	-, 00¢-	07	08	8	07		09	14	06	08	.04	91	02	,
Tenth Grade .	Scale Direction		high " warm, open	high = warm, open	- vara,	uigii - warm, open		high = warm, open	- warm,	nign = Warm, open		high = warm, open	- varm,		a varia	nign = Warm, open		lov - helpful	low - helpful
	Description	C-7 Interpersonal Relations of Principal	٠.	et along	now do principal and B students get along h Now do principal and W students set alone h	9			atong atong	inte get atomg	C-2 intexpersonal Kelations: Parents, Students	along	Blong	c atong	atong	erecenta ger atong	o control of hace-kelations Programs		Diracial advisory committee
r	Loading	ersonal Re	.78	00.	96	rsonal Rel		. 89	62.		rsonal Kel	. 82	07.	.67	,	1 20 10	O PO PO	181	:
	I.b.	C-7 Interp	GC256	roc .	305	C-8 Interpe	. 0000	298	306	0.0	C-2 Interpe	, GC299 300	301	. 302	307	C-10 Purpling	ב דה באפותטו	GC253	1

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٠.	Achievement	22 24 18 21 12 12	-:14	09 07 .00 03	29* 27
comes	School Fairness		.17	.08 .05 .07 .14	26 33* 20
White Student Outcomes	Racial Contact	06 13 11. 09	20	03 07 .02 .02	33* 05 33*
Wite S	Student Racial Attitude	19 22 .00 18 14	.03	02 02 03 .03 .05	30* 30*
	Perceived School Racial Attitude	14 19 02 14 09	.03	.04 05 05 05 .01 .37	39** .09
renth Grade	Scale Direction	high = warm, open high = warm, open high = warm, open high = warm, open	# Varm,	high = warm, open high = warm, open high = warm, open high = warm, open high = warm, open	low = helpful low = helpful
	L.D. Loading Description C-7 Interpersonal Relations of Principal	303 . 36 How do you and the principal get along 303 . 86 How do principal and teachers get along 304 . 94 How do principal and B students get along 305 . 94 How do principal and W students get along C-8 Interpersonal Relations with Teachers CC297 . 87 How do you and black teachers get along		300 .82 How do you and black parents get along 300 .80 How do you and white parents get along 301 .70 How do you and black students get along 302 .67 How do you and white students get along 307 .62 How do black and white students get along C-10 Evaluation of Race-Relations Programs	Minority culture courses **Biracial advisory.committee** **The committee of the committee
	I.D. Loading	.78 .94 .94 .94949494949494	.89 .79	. 82 . 80 . 70 . 67 . 62 62	.81°.
	I.D.	GC296 303 304 305 C-8 Interp	298 306 C-9 Interpe	GC299 300 301 302 307 C-10 Evalua	GC253.

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					Black	Black Student Outcomes	tcomes	
, F				Perceived School Racial	ed Student Racial	Racial	School	·
1.0.	Loading	Description	Scale Direction	Attitude	~ !	Contact	Fatrness	Achievement
C-11 Eval	uation of 1	C-11 Evaluation of Instructional Programs		71	8.	.07	22	
CC250	.32	Teacher workshops	low - helpful	* 28	- 13	;		
251	99*	Remedial reading	lov = helpful		71.	17	01	9.
252	. 74	Vocational training	low = helnful	#T*-	3	.	13	.07
5 254	.76	Classrooms for underachievers	1014 = 101	-113	01	.13	11	03
F 255	. 63	Classroms for moledisched	TOM - NEIBTHI	15	05	08	03	80.
256	S 47		low = helpful	16	02	03	05	18
270	Ç. ;	Achievement grouping of classrooms	low - helpful	.02	25	13	32 *	11
757	.51	Achievement grouping within classes	low - helpful	16	09	.25	27	į 5
261	99.	Tutoring program	low = helpful	60	**05.	-,13 -	10.	* * E
C-12 Evalu	uation of H	C-12 Evaluation of Human Relations Programs		- 1k	19 -	1/1	4	
66262	8	4004000			10.		CT:	111
6 9 6	5 8	יבובוור כסוונמרו סוספומו	low = helpful	.11	.23	- 06	.03	09
503	Co. !	Student intergroup relacions	low = helpful	22	16	11	08	07
507	/9.	Teacher intergroup relations	low = helpful	60.	1.04	31	01	25
C-13 Evalu	C-13 Evaluation of Services	ervices						
				10	61:	.18	.17	.23
GC247	٠.	Guldancè counselors ,	low = helpful	16	02	.02	.07	13
248	•	Social workers	low = helpful	15	.13	***	.12	. 23
647	752	Teacher aides	lc helpful	01	.20	.12	15	60.
								•

(Continued)	
B-2	
Table	

Fenth Grade

-			•	White S	White Student Outcomes	cones		
I.D. Loading	18 Description	Scale Direction	Perceived School Racial	Student Racial Attitude	Racial Contact	School Pairness	Achievenent	
C-11 Evaluation o	C-11 Evaluation of Instructional Programs		- 05	8				
GC250 .32 251 .66	Teacher workshops Remedial reading	low = helpful low = helpful	18	22 °.	27	03	.13	
252 .74 254 .76	Vocational training Classrooms for undergehisters	low = helpful	13 02	10	08	-,16	17 34.	
255 .63	Classrooms for maladjusted	low = helpful	13 -:34*	05	16 48	.15	.10	•
25751	Achievement grouping within classes Tutoring program	low = helpful low = helpful low = helpful	.00.	.10	.06	.04	*	
C-12 Evaluation of	C-12 Evaluation of Human Relations Programs	A	36	13	25	08	.10	8-48
CC262 .84 263 .85 264 .67	Parent-contact program Student intergroup relations Teacher intergroup relations	<pre>low = helpful low = helpful low = helpful</pre>	16 29* 18	20 54	17 51	20	14	
uatio	Services		14	31.		06	05	
24878 249 .25	Guldance counselors Social workers Teacher sides	low = helpful low = helpful low = helpful	.24	3, 75	.07	05	.02.	•
			,	67.	50.	90.1	- 08	

APPENDIX C

PARTIAL CORRELATIONS BETWEEN PRESENCE OR ABSENCE OF SCHOOL PROGRAMS AS REPORTED BY THE PRINCIPAL OR TEACHERS AND THREE STUDENT OUTCOME MEASURES FOR BLACK AND WHITE STUDENTS

·						Page
Fifth	Grade	ľ	 ,			 C-2
renth	Grade			:		\$ C-5

Table C-1 Fifth Grade

Partial Correlations between Presence (1) or Absence (2) of School Programs as Reported by the Principal (P) or Teachers (T) and Three Student Outcome Measures for Black and White Students.

		tudent Perceived Racial Attitude T		nt Perceived ial Attitude T
Guidance Counselors	04	.04	07	.06
Home Visitors	.22	.22	.01	03
Teacher Aides	. 01	11	08	02
Teacher Workshops	.17	03	.04	.01
Remedial Reading	.14	.12	.00	.23
Vocational Training	.09	.02	09	.10
Minority History	.21	.02	15	.01
Classes for Under-		•	- 	
achievers	08	09	10	.04
Classes for Maladjusted	.13	05	.02	.06
Achievement Grouping of				
Classrooms	09	14	01	15
Achievement Grouping		•		
within Class	_	.12	<u> </u>	09
Curriculum Revisions	.11	.06	01	03
Extra Curricular Activities	04	.05	13	10
Late Bus	.04	12	 05	.07
Tutoring Program	.03	.06	11	.13
Parent Teacher Contact	.14	.00	.13	.00
Group Relations:Students	.06	06	04	06
Group Relations:Teachers	·10	09	04	.08
Biracial Advisory Committee	.16	.08	• 09	.07
Equipment for Student Use	07	.18	05	05
Team Teaching		16		.01
Ungraded Classes	_	.02	- .	12
Experimental Classroom	-	.12	-	05



Effects of black and white student SES, percent black, percent urban and north/south have been removed.

 $^{^{2}}$ N = 76 schools; .22 = p < .05; .29 = p < .01

Table C-1 Continued Fifth Grade

·		•		
<i>f</i>	Black S		White Stu	dent
•		ial Attitudes	Personal Racia	l Attitudes
, /	P	T	P	T
Guidance Counselors	01	.00	09	10
Home Visitors	. 28	•12	.09	.01
Teacher Aides	•00	04	.08	05
Teacher Workshops	~. 08	.00	.09	12
Remedial Reading	• 0 <u>0</u>	• 07	01	.07
Vocational Training	.14	.07	.11	.05
Minority History	.03	05	08	11
Classes for Under-	4		•00	11
achievers	.08	23	12	11
Classes for Maladjusted	.12	24	.01	19
Achievement Grouping of		,	•01	19
Classrooms	. 04	~.1 5	14	12
Achievement Grouping				
within Class	_	.00		3.6
Curriculum Revisions .	.07	.18	.10	~.16
Extra Curricular Activities	.02	.07	08	~.05
Late Bus	04	20	.01	~.17
Tutoring Program	.04	02	10	~.11
		•02	~.10	29
Parent Teacher Contact	. 20	04	04	~. ō
Group Relations: Students	. 07	~.17	12	12
Group Relations:Teachers	.∹.13	22	15	12
Biracial Advisory Committee	.17	.07	.10	06
Equipment for Student Use	07	02	16	.00
a	•	* .	• 20	•00
Team Teaching		.15		~.06
Ungraded Classes		.11		~.15
Experimental Classroom	-	.20		~. 08

Table C-1 Continued Fifth Grade

<i>6</i> ,	Ach	k Student ievement	•	Student vement
6	P	T	P	r
Guidance Counselors	13	04	31	~.10
Home Visitors	10	03	15	.05
Teacher Aides	₅ ~.03	.12	.08	.18
Teacher Workshops	11	14	18	.16
Remedial Reading	06	·03	.02	.24
Vocational Training	.16	.13 ^{,-}	.07	17
Minority History	.05	08	04 \(\frac{1}{3}\)	.17
Classes for Under-		• • • • • • • • • • • • • • • • • • • •	04 ,	.12
achievers	~.19	06	 07	.08
Classes for Maladjusted	• 07	13	05	.00
Achievement Grouping of		•	03	•00
Classrooms	~.16	.02	.03	~.07
Achievement Grouping				•
within Class		.06	· · · · · · · · · · · · · · · · · · ·	
Curriculum Revisions	.22	.18	-	. 05
Extra Curricular Activities	.01	.07	10	.14
Late Bus	.17	04	18	.23
Tutoring Program	.02	04 09	.06	.21
ratoring riogram	• 02	09	07	.00
Parent Teacher Contact	~.17	19	12	. 21
Group Relations: Students	.09	.07	12	.19
Group Relations: Teachers	24	.~·04	19	.23
Biracial Advisory Committee	.09	. 16	 03	
Equipment for Student Use	~.09	.06	03	.04
Team Teaching		.18		.20
Ungraded Classes	-	.06	<u> </u>	.11
Experimental Classroom	·	11		02

Table C-2 Tenth Grade

Partial Correlation between Presence(1) or Absence(2) of School Programs as Reported by the Principal(P), Teachers(T) or Guidance Counselors(C) and five Student Outcome Measures for Black and White Students.²

			Perceived Attitude			Perceived Attitude
	P ·	T	С	P	T	C
Guidance Counselors	~.05	.13	.34	.04	.03	10
Home Visitors	.20 -	.00	.07	.27	.22	.12
Teacher Aides	~.06	.05	.11	14		.22
Teacher Workshops	.10	.14	.05	.01	.00	.06
Remedial Reading	.04	01	.05		.13	.12
	• 0, 1	01	,•05	.06	03	06
Vocational Training	.00	.10	16	00		. ,
Minority History	.08	18		.00	.14	22
Classes for Underachievers	22		.06	.02	11	12
Classes for Maladjusted	.19	21	.15	 37	13	.21
Achievement Grouping of	•19	26	.06	10	09	01
Classrooms	,		,			
	38	~.2 5	28	29	04	01
Achievement Grouping						, , ,
within class	••			•		
Curriculum Revisions		24	18	- .	05	.10
Extra Curricula	.07	20	13	.20	.05	13
Activities	•				•	/
	05	0ó	11	23	15	.14
Late Bus	.06	06	10	02	05	09
Tutoring Program	.11	11	.07	.09	.05	.29
	A "					• 2
Parent Teacher Contact	.18	.18	19	04	.13	.10
Group Relations: Students	12	00	.15	10	.11	.01
Group Relations: Teacher	1 3	.00	.03	04	06	
Biracial Advisory Committee	.03	.01	03	.13	.32	.09
Equipment for Student Use	01	26	08	02		.10
	- 3 - 3	•=0	•00	02	07	06
Team Teaching		23	04		26	00.5
Ungraded Classes	· -	34	04 11	_	26	09
Experimental Classrooms	_	19		:-	29	10
		ー・エナ サール	20	-	.15	.04

¹Effects of black and white student SES, percent black, percent urban and north/south have been removed.

 $^{^{2}}N = 61 \text{ schools}; .25 = p < .05; .32 = p < .01.$

Table C-2 continued
Tenth Grade

	Black F	: Students' I Cacial Attit	Personal (White Students' Personal Racial Attitudes			
	P	T	C	P	Т	C	
Guidance Counselors						•	
Home Visitors	.02	.16	.16	.06	02	.03	
Teacher Aides	.15	.15	03	.28	.24	.22	
Teacher Workshops	.21	.11	.04	.09	.25	.17 -	
Remedial Reading	.19	.24	.28	.01	.13	.09	
wemediat Keauting	.23	.14	.15	.04	.17	.12	
Vocational Training	. 00						
Minority History	.00	.02	07	.00	.13	03	
Classes for Underachievers	.17	06	06	28	~.14	26	
Classes for Maladjusted	.11	.21	.23	02	28	.11	
Achievement Grouping of	10	.03	.01	.03	10	.03	
Classrooms Classrooms	12	.04	.00	07	11	09	
Achievement Grouping		•					
within class	_	.01	15				
Curriculum Revisions	.24	.04	~.15	_	03	.14	
Extra Curricula	•44	• 04	.01	07	09	13	
Activities	.22	.03	0.6				
Late Bus	·22	.10	06	- 05	.32	. 24	
Tutoring Program	12	09	 09	02	- 01	06	
		09	18	00	. 20	.30	
Parent Teacher Contact		•	•				
Group Relations: Students	. 25	.14	.25	07	.02	1.11	
Group Relations: Teacher	06	.20	.04	.02	01	12	
Biracial Advisory Committee	.10	.08	11	09	24	17	
Equipment for Student Use	02	 05	15	.19	.26	.26	
- Loring Tox. Deddelte OSE	.09 "	01	.12	.15	.07	02	
Team Teaching		. 10			• • • • • • • • • • • • • • • • • • • •	02	
Ungraded Classes		.10	.16	-	~.17	~. 07	
Experimental Classrooms	~	01	01	, -	~.11	11	
	. •	03	03	- ,	.24	04	

C-7

Table C-2 continued Tenth Grade

		Student Contact	Racial		Student : Contact	Racial
	P	, T	C	P	T	C
	. • 0-	•				
Guidance Counselors	.00	. 26	. 04	. ,	1.	` "
Home Visitors	08	13	04	~.05	12	7.08
Teacher Aides			13	.16	.08	.10
Teacher Workshops	.16	.08		.39	.46	.20
Remedial Reading	.19	.00	.08	.12	.38	.17
	.09	.12	.08	.23	.36	.27
Vocational Training	00	0				
Minority History	.00	.00	11	.00	.16	.05
Classes for Underachievers	.03	10	44	15	08	25
Classes for Maladjusted	.10	.04	.03	.10	14	(.05
Achievement Grouping of	03	27	08	.10	.00	7.03
Classrooms						
Classioons	.10	.05	.02	.09	08	03
Achievement Grouping	•			•	*.	•
within class		et in the contract of the cont		•		•
		10	02	_	.05	.07
Curriculum Revisions	.01	06	17	·12	~. 07	19
Extra Curricula			,			
Activities	. 1.0	07	.96	14	21	.03
Late Bus	.13	.05	08	.02	.03	.03
Tutoring Program	03	08	.06	.09	.14	.05
					• 4.	•05
Parent Teacher Contact	.06 °	.09	.09	03	.17	.06
Group Relations: Students	11	02	11	.02	.03	.08 ₩08
Group Relations: Teacher	26	02	16	04	15	
Biracial Advisory Committee	.24	.04	.14	.07		13
Equipment for Student Use	11	01	07	05	.18	15
	-	•01	07	~. UJ,	14 و	15
Team Teaching	. .	.06	.01	and the second second	0.1	
Ungraded Classes	_	.09	.11	- ,	01	.13
Experimental Classrooms		.05		- ~	.03	.00
<u> </u>	and the second second	• 05	17	~	.16	15

Table C-2 continued Tenth Grade

	Black	Students Efficacy	School	White	Students Efficacy	School
;	P	T	С	Р "	T	С
Guidance Counselors	01	15	21			•
· Home Visitors	.31		.21	19	10	.07
Teacher Aides	.02	.12	.24 🤟	.13	.22 -	.12
Teacher Workshops	.17	· 02	.07	.13	.03	.08
Remedial Reading	.12	.00	.16	.00	02	.13
illoso zing	•12	.04	. 20	.09	.18	.29
Vocational Training	•00	 07 ~	10			
Minority History	22		18	.00	11	.01
Classes for Underachievers	28	27	.00	08	17	29
Classes for Maladjusted		14	.19 ′	.06	12	.00
Achievement Grouping of	.04	02	.24	.17	.07	: .25
Classrooms	•					
CLASSIOOMS	12	25	02	.09	.01	.25
Achievement Grouping						
within class	·					
Curriculum Revisions	10	· ~.08	.08	·~	.01	.01
Extra Curricula	•13	15	.05	,04	22	02
Activities						
Late Bus	28	38	,02	03	33	.24
· · · · · · · · · · · · · · · · · · ·	.16	16	.00	.30	.03	.01
Tutoring Program	02		.02	.01	06	.01
Down to Mary / 1 - 2						
Parent Teacher Contact	.01	.12	.22	.05	.12	.12
Group Relations: Students	25	 04	.03	06	09	.05
Group Relations: Teacher	01	08	10	~.01	01	
Biracial Advisory Committee	· .18	. 03	.06	.20	03	19
Equipment for Student Use	25	18	 03 °	09	·.15	17
		· ·			• 4.7	.04
Team Teaching	_	11	04	· _	08	11
Ungraded Classes	~	 07 %	26	_ '	00 .17	
Experimental Classrooms	-	04	24	_	.07	09
			• •		* U !	11

Table C-2 continued Tenth Grade

	Black	Student Achie	evement	White	Student Ach	ievement -
	P	T	С	Р	T	
		•	·	r	1	C
Guidance Counselors	21	27	11	05	.02	~.03
Home Visitors	~.05	.04	10	.07	.21	.08
Teacher Aides	.23	.16	.10	.00	04	15 .
Teacher Workshops	.05	08	04	19	12	.04
Remedial Reading	.10	.18	.01	.11	.06	.09
Vocational Training	.00	03	10	.00	01	
Minority History	18	14	.04	02	01	03
Classes for Underachievers	20	08	06		06	17 [©]
Classes for Maladjusted	07	.01		.32	.08	•00
Achievement Grouping of		•01	04	.21	.12	.27
Classrooms	.19	06	.10	.16	02	.05
Achievement Grouping		,			*	•
within class			_	;		
	-	.13	.21	~	~ 00 \	25
Curriculum Revisions	.17	 07	۰۵6	.01	19	.17
Extra Curricula	-					()
Λctivities	11	02	.12	.34	11	.10
Late Bus	.20	.02	.00	.22	.02	12
Tutoring Program	.01	08	17	08	1 3	12 15
\				•••	- • 4,5	15
Parent Teacher Contact	.01	15	26	.14	03	.15
Group Relations: Students	26	20	01	05	09	
Group Relations: Teacher	10	.15	19	.00	13 ´	.07
Biracial Advisory Committee	.21	15	.00	03		22
Equipment for Student Use	08	.06	10	.06	14 .11	31 .20
Tool Tool Tool	•				•	
Team Teaching	, - ·	.32	.28	_	.01	15
Ungraded Classes	-	.14	.08	_	.06	13
Experimental Classrooms	-	13	04	_	.05	- 16

PPENDIX D

1975 ZERO-ORDER CORRELATIONS BETWEEN AVAILABLE SCHOOL PROCESS VARIABLES AND STUDENT OUTCOMES

Fifth Grade Page

Table D-1
Fifth Grade

1975 Zero-Order Correlations between Available School Process Variables and Student Outcomes

		Sch Rad	ceived nool nool tude	Pers Rac	lent's sonal		ident evement
,	Teacher Variables	Black	White	Black	White	Black	White
1.	Teachers' acial attitude	07	v	. 33	.28	.37	27
2.	Support for integration	ु ₹.36	47 [*]	49*	43*	49*	. 23
3.		• 55 *	.61**	. 24		.27	19
4.	Teachers' job attitude	. 24		.00	•	26	13
5.	Interpersonal relations with students	.26	.44*	.27	.45*	.26	21
6.	Interpersonal relations among teachers		.36			.05	.20
7.	Interpersonal relations of principal	.46*	\.37	.01		.04	19
8.	School autonomy	.11	.36	.30	.56*		.21
9.	Teacher autonomy .	.11.	.53**		.38	.16	.13
10.	Inequality	16	39		40 [*]	23	
11.	Perceived racial differences		,	-Not Avai			.10
12.	Desegregation process	67**	49*	18	- 41*		
13.	Teaching style (1)	26	56**	39	_ 55**	12	.21
14.	Teacher training	·		Not Avail			•03
Ì5.	Achievement evaluation						
16.	Race relations practices	10	26	-Not Avail 18	.able		
17.	Evaluation of services						
187	Evaluation of human relations programs			Not Avail			
	Evaluation of instructional programs	,		Not Avail			
	Extra time on task	02		Not Avail			
	Teacher vs. child-centered attitudes		- .1 3	06	05		.00
	Structure	25		10			.04
	Teaching style (2)	27	41 [*]	Not Availa			
	27	21	41	21	47*	16	01
•	Student Variables	· r.					
	Racial contact practices (Black)	08	05	•00	27	24	18
	Racial contact practices (White)	.21		06	41*	,	18 19
*				,		•	• 40

p < .05 **pp < .01

N = 21 School's

Table D-1 (cont.)

Fifth Grade

1975 Zero Order Correlations between Available School Process Variables and Student Outcomes

• .	Principal Variables		Perceived School Racial Attitude		ent's onal ial tude	Student <u>Achieveme</u> n	
	Principal Variables	Black	White	Black	White	Black	White
1.	Principal's racial attitude	41*	16	.35	.41*	.58**	.02
2.	Support for integration	. 25	. 22	49*	~.04	25 °	04
. 3.	Absence of conflict: discipline						
	Absence of conflict: racial issues			Not Avai	•		
5.	Absence of conflict: ability grouping						1
·. 6.	Absence of conflict: instructional cha	inge		Not Avai	lable		
7.	Absence of principal's personal confli	ct		Not Avai	lable		
	School SES	, · , *		~ 50*	•		
9.	Violent behavior			02			
10.	Principal's interpersonal relations			 35	•		
11.	Inequality (black and white parents)			Not Avail			4.5
12.	Principal's job attitude						21
13.				-Not Avail		•	
14.	Evaluation of instructional programs			-Not Avail	.able		
15.	Evaluation of human relations programs	2					
16.	Evaluation of services		.*	-Not Avail			
	* Significant at .05 level						

Significant at .05 level

N = 21 Schools

^{**} Significant at .01 level

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